## IEC telecom



**SATELLITE IT UP!** 



#### FIND YOUR CLOSEST OFFICE

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#### **IEC TELECOM KAZAKHSTAN**

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#### **IEC TELECOM NORWAY**

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#### **IEC TELECOM SINGAPORE**

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#### **IEC TELECOM TURKEY**

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#### **IEC TELECOM DENMARK**

Copenhagen: +45 3131 4207 info-no@iec-telecom.com

#### **HUMANITARIAN SOLUTIONS**

When disaster strikes, rescue teams need to act fast. IEC Telecom works alongside all the leading rescue agencies to enable them to deploy relief teams quickly.

With our expertise behind them, teams can have confidence that all satellite communications are reliable with secure, unfailing back-up systems – enabling staff to operate in the most challenging and remote conditions or dangerous regions, certain in the knowledge that our systems are tracking both people and assets. We have more than 350 satisfied humanitarian sector customers around the world using handsets and satcom equipment and some 6,000 active SIM cards provided by IEC Telecom.

Our solutions are the number one choice for humanitarian teams throughout Africa, South and Latin America, Central Asia and Europe, as well as for emergency/first responders and for middle and long term development missions.





#### **IMMEDIATE DISASTER RESPONSE**

NGOs and disaster response teams require mobile, flexible and easy to deploy solutions that can provide the means for communication instantly. We offer lightweight and compact equipment to ensure enhanced mobility and shorter reaction time for operational units. With our Push-To-Talk solutions, communication groups are pre-defined, enabling response teams to be connected and ready to act at the first call. Thanks to our 24-hour service and globally responsive capabilities, IEC Telecom can activate hundreds of satellite phone SIM cards within two hours, while urgently dispatching stocks of handsets, modems and



#### MANAGED END-TO-END SOLUTIONS FOR DISASTER RECOVERY

hardware to aid agency teams loading planes ready to fly out to disaster zones.

With our telecommunications systems, aid agencies can consolidate their relief efforts over time, set up temporary offices using semi-fixed modems and access corporate applications, manage logistics or even use low bandwidth videoconferencing solutions.



#### **COMMUNICATIONS SYSTEMS FOR HUMANITARIAN CAMPS**

For longer term deployments and sustainable development missions, IEC Telecom can cover any specific need and offer high broadband data connectivity 'DSL-like', so that teams can access and share high data volumes, get a VPN connection, join videoconferencing, etc.

From housing and food distribution to education, medicine and waste management, all field requirements can be managed through our connectivity services. We provide agile and affordable satcom solutions, enabling data exchange between camp units and headquarters to ensure the smooth operation of camp administration. This is applicable to both the camp management teams as well as the encampment inhabitants, for whom staying in touch with family members or the 'outside world' is so important. Thanks to our Wi-Fi enablers, both can benefit from a 'bring your own device' approach, staying connected using personal gadgets.



#### **WELFARE SOLUTIONS**

Enable your staff to make phone calls, use messaging, access social media and browse the internet without adding to your budget. Multiple team members can share the same Wi-Fi connection and benefit from prepaid vouchers for voice and data services to stay in touch with their friends and family, stay up-to-date with recent news, or undertake routine online tasks (such as checking bank statements or making payments) while stationed in the field.



#### TAKE CARE OF YOUR FRONT-LINE STAFF

To ensure personal safety in hazardous locations, our advanced tracking solutions allow a complete live view of your front-line staff positioning. Go even further by equipping each of your team members with individual sensor-based devices which can measure and report on the physiological data of your team members in real time.

For long-term projects, IEC Telecom can support missions with comprehensive e-health and e-learning solutions. For more details, please refer to the sections below.



#### **E-HEALTH**

Using satcom solutions, field missions can be equipped with mobile telemedicine hubs – enabling access to medical records and remote real-time consultations, with the facility to set up online systems for administration coordination (scheduling appointments, procurement operations, accounting, etc.) E-health programs can benefit locally-stationed doctors by providing them with the opportunity to hold advisory sessions with experienced professionals based in any clinic of the world.



#### **E-LEARNING**

Lack of infrastructure disadvantages millions of children by preventing them from accessing even basic education. This is often the case for the millions of youngsters growing up in refugee camps, as well as being the experience in some areas of the developing world.

Satcom solutions provide the communication assets needed to address two core problems: lack of educators in the field and the absence of learning materials. In fact, e-learning programs are proving to be beneficial to adult learners too, helping displaced people to adapt to their new environment.



#### **REMOTE MANAGEMENT & SUPPORT**

Reliable back up and technical support is essential when satellite connectivity is crucial.

IEC Telecom Support is available 24 hours a day, 365 days a year, online and via telephone.

The entire service experience from sales to installation and maintenance to upgrades comes with the professionalism and expertise you would expect. IEC Telecom's specialist teams take care of your connectivity requirements, enabling aid agencies and those operating in remote locations to concentrate on providing the essential services needed in the field.

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Inmarsat Land Xpress is a new generation global network of high capacity satellites. It operates in the Ka-band and is backed by the L-band to provide universal, real-time, and secure coverage. The Land Xpress provides terminals that work under a single, global IP address and offers universal coverage under a single subscription, eliminating the need to manage multiple regional service providers while keeping your data secure, accessible, and portable. Now, you can plan for mission critical operations, surveillance, and special operations, anywhere, anytime.

#### **BENEFITS**

- Significant cost savings for services delivered via Inmarsat SAS sites
- Works on a broad portfolio of terminals in mobile, portable, and fixed formats
- Dual carrier MPLS backbone and dual SAS configuration for clear and reliable communication
- High-speed file transfers and broadband internet access globally
- Supports video surveillance and live full-motion video services
- Easy to install and operate

#### WHY INMARSAT LAND XPRESS?

Coverage: No matter where your organization is located, today or in the future, Land Xpress provides you with assured connectivity.

Reliability: Your mission critical communications are delivered over a seamless, efficient, and dependable network with Land Xpress.

Efficiency: You can take advantage of a single global network with one set of training, support, and maintenance standards instead of managing multiple contracts with regional satellite service suppliers.

Compact: Each terminal you install comes with its own single, global IP address.

They're discreet, on-site and available in transported easily.

#### **CASE IN POINT**

You can use Inmarsat Land Xpress for a variety of functions, including:

- Video teleconferences
- Remote video streaming
- Video surveillance
- Secure file transfers
- Remote office applications
- Distance learning

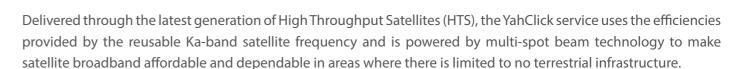
portable, mobile, or fixed-forms, and can be

- Content distribution

Event planning

## **YAHCLICK** WI-FI

SATELLITE BROADBAND SERVICE OFFERING **RELIABLE, COST-EFFECTIVE, AND HIGH-PERFORMANCE INTERNET** CONNECTIVITY



#### **CLOSING THE DIGITAL DIVIDE**

YahClick Wi-Fi provides communities with direct access to critical communications via the Internet. It can be set up and utilized to provide communities access to information and public announcements.

#### **DEVELOPMENT PROJECTS**

YahClick Wi-Fi provides the means for connectivity to provide basic infrastructure in rural areas, such as education, healthcare and general governmental support.

#### **HUMANITARIAN OPERATIONS**

Internet access through YahClick Wi-Fi enhances the efficiency and effectiveness of response teams, by enabling easier data collection and analysis in both ongoing support and emergency response.

#### **EMERGENCY CONNECTIVITY**

YahClick Wi-Fi ensures that crisis-affected communities have access to connectivity for emergency communications – from ordering urgent food supplies to submitting security reports.

#### **FEATURES**

- Extendable to a large area for different community requirements
- Wi-Fi zones can be activated and managed remotely
- Solar-powered, self-charging batteries
- Voucher Management System generates volume-based or time-based vouchers for users
- Local cloud preloads content for users to have access to customized content

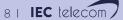
#### **BENEFITS**

BASE TRANSMISSION STATION (BTS)

- Provides a Wi-Fi hotspot with a range of up to 15km
- VSAT equipment
- Provides satellite backhaul connectivity
- Solar panels with battery backup
- Powered 24x7, independent of national or local grids

#### **TECHNICAL FEATURES**

- The BTS can be mounted on a standard aluminum tower (optimally 6-8 meters), or mounted on existing infrastructure
- The BTS transmits the Wi-Fi cloud with a radius of up to 500m at a 2.4GHz frequency, allowing users to connect through their handheld devices
- In larger areas, the solution connects up to 200 carrier-class Wi-Fi zones, both indoors and outdoors, up to 15km from the BTS at a 5GHz frequency. The Wi-Fi zones are then equipped with routers to create small Wi-Fi clouds of up to 500m at the 2.4GHz frequency





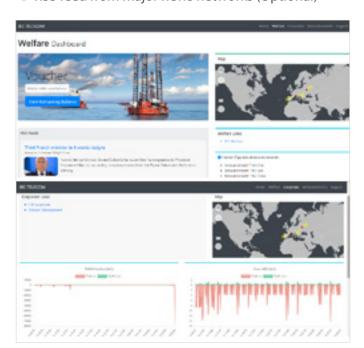
**ONEGATE** 

**360° NETWORK MANAGEMENT SOLUTION** 

Agile, lightweight, and easy to install, OneGate is a future-ready network management solution designed to operate in dual GSM/satcom mode. Designed with a customisable dashboard, OneGate allows to remotely manage the traffic, issue crew/quest vouchers, alter access levels as well as add, update or upgrade new applications. In addition, this system comes with an inbuilt Wi-Fi controller and superior cyber security toolkit. Lastly, it optimises the default bandwidth while automatically routing data over the least-cost network available, thus, delivering the best user experience at an optimal fee.

#### **LOCAL DASHBOARD**

- Protected access to the corporate dashboard
- Voucher monitoring
- Full visibility over WAN links data and bandwidth
- Access to the hotspot management portal
- Signal strength monitoring and tracking
- Internal announcement feature
- RSS feed from major news networks (Optional)





#### **CREW/GUEST VOUCHERS**

- Managed locally or via IEC Telecom customer support
- The captive portal intercepts users on the crew network and requests authentication
- Data distributed via in-built Wi-Fi router, enabling remote teams to stay connected via personal devices

#### WAN OPTIMISATION

- TCP compression and redundancy elimination
- TCP Acceleration
- Avoids unnecessary retransmissions
- Maximum line speed
- Link bonding and balancing

## CONTROL

- Two-stage filtration possible, onshore and offshore
- Application identification and categories classification (WhatsApp, etc.)
- Advanced usage reports to provide full visibility of the network traffic

#### INTEGRATED LTE FAILOVER

- Integrated LTE modem to reduce costs
- Seamless failover between LTE and satellite links

- Two levels of cyber security: at the gateway and
- Advanced intrusion detection and gateway antivirus on board
- Endpoint security with remote configuration
- Advanced Filters designed per WAN link (VSAT, L-Band, LTE) as required
- Full vulnerability monitoring from central shore dashboard

#### **ADD-ONS**

The functionality of OneGate can be further expanded with a wide range of IEC Telecom applications geared to operate in a low-bandwidth environment.



Optimised application for videoconferencing



Portable digital telemedicine kit



Cutting-edge antivirus solution for remote networks



Remote maintenance delivered over hands-free handset



Virtual portal for network management and apps administration



Email service for vessels with multiple users



Video surveillance software with advanced remote access



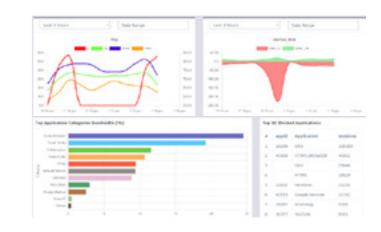
Cost-effective email service for small vessels



Bi-directional file-transfer service for sea-shore data replication

#### **OPTIVIEW: END-USER PORTAL**

- Full visibility over WAN links
- Advanced filtration management
- History of bandwidth usage
- Usage details report
- Credit limit management
- Voucher monitoring
- Tracking & signal monitoring



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Bridging the digital divide with global satellite connectivity, Voyager Edge V is a hybrid satcom/GSM solution that empowers public services and social programmes in areas with limited or no GSM coverage. With a VSAT-like user experience and uninterrupted connectivity on-the-move, it ensures the continuity of government, humanitarian and business operations in remote areas.

#### **THURAYA IP VOYAGER**

- Thuraya IP Voyager is a reliable, highquality and affordable vehicular satellite terminal designed for a wide range of mission-critical on-the-move operations in areas inadequately served by terrestrial networks
- The terminal enables users to collaborate reliably and efficiently with colleagues using video, data, and VoIP to achieve mission-critical tasks where failure is not an option

#### **ONEGATE COMPACT**

- Dual GSM/satcom mode with least cost routing
- TCP acceleration and compression for up to 2 Mbps user experience
- Digital dashboard for network management
- Hosting optimised apps (email service, videoconferencing, remote surveillance, and more)

- User-controlled with a flexible voucher system and advanced UTM security
- Compatible with a hands-free headset for remote maintenance, powered by DigiGone
- Lightweight, mobile, and compact

#### **CONSUMPTION CONTROL**

Non-critical usage can easily monopolise a link and weaken the security of the

Voyager Edge V supports filtration capabilities that enable HQ to restrict usage of dedicated links in order to ensure the availability of bandwidth for priority communications.

#### **MOBILE UNITS**

With GPS tracking of mobile units in real-time as well as a secured channel for confidential communications and data transfers, Voyager Edge V ensures the continuity of operations and safety of remote workers. A 24/7 dedicated

digital portal allows to remotely monitor consumption and control the network status.

#### **TELEMEDICINE**

With the increasing role of virtual healthcare delivery, Voyager Edge V equips field physicians in remote communities with counsel and resources that are otherwise unreachable. Telemedicine empowers government healthcare systems with a low-cost solution to extend medical coverage and brings high quality medical assistance to patients in the comfort of their own homes.

#### **SOCIAL PROJECTS**

With cost-effective connectivity for social initiatives, e-banking, and e-learning, Voyager Edge V connects government bodies, private institutions, and remote communities to extend access to all social groups. Besides social inclusion benefits, businesses can explore attractive niches for new investments and uplift the global economy while remaining competitive.

## **IRIDIUM EXTREME PTT SOLUTION**

PUSH-TO-TALK ALLOWS YOU TO PRESET CONVERSATIONS WITH A **GROUP OF PTT USERS LOCATED IN A PRE-DEFINED AREA** 

Using the Iridium PTT Command Center, the administrator can guickly and easily define coverage areas and user talkgroups as well as make changes within seconds.

The Iridium PTT service is based on various subscription plans, all based on the size of coverage for PTT service (km<sup>2</sup>). Geographic definition of each talkgroup: with a Google Maps interface, talkgroups are defined by a maximum size of 2,250,000 km<sup>2</sup>. One to 10 different geographic areas may be included in a single talkgroup by creating circles or rectangles over the area on the map.

Subscriber equipment: equipment can be assigned to talkgroups through a drag and drop. Up to 15 talkgroups may be assigned to each subscriber equipment.

#### **KEY FEATURES**

- All service coordination is performed using a single interface
- Talkgroup areas are changed in seconds
- Devices can be suspended or blacklisted
- End user organisations may control their own service and device perimeters
- Google Maps utilizes in geo displays, easy drag and drop controls

#### IRIDIUM EXTREME PTT **CAPABILITIES**

- Push-To-Talk allows you to set conversation with a group of PTT users located in a pre-defined area.
- GLOBAL: Works pole-to-pole where you need it
- MOBILE: Fully integrated for on-themove, handheld use
- SIMPLE: Automatic programming and registration with easy-to-use menu navigation
- ADAPTABLE: Use on-foot, in-vehicle, or

- in-building with available accessories
- SECURE: Push-to-Talk communications are kept private with AES 256 encryption
- FLEXIBLE: Unlimited number of users in the talkgroups with affordable unlimited airtime plans

#### **ONE UNIQUE COMMAND CENTER**

 Using the Iridium PTT Command Center, the administrator can quickly and easily define coverage areas and user talkgroups as well as make changes within seconds.







## **OPTI**ACCESS

#### THE COMPLETE DATA COMPRESSION & EMAILING SOFTWARE

OptiACCESS is a data compression and emailing software that allows you to access the best web services anywhere: Emailing, Web Browsing, Weather, Social Media & Blogging. However, with OptiACCESS, you can take what you regularly do online a step further and make the internet work for you in a smart way. OptiACCESS provides you with a four-fold access advantage: First, you can easily connect to the internet only for the time you really require to send and receive data. Second, OptiACCESS enables web pages to load 3 to 5 times faster. Third, in case you get disconnected, OptiACCESS resumes the data transfer exactly where it was stopped. With integrated applications and compatibility with the equipment of all major satellite operators, OptiACCESS is the best choice for internet access.



## MANAGE YOUR EMAILS

OptiACCESS is quick and easy to set up, allowing you access to your emails right away. Single email address per business unit (vessel/ camp/ remote office, etc.) with simple management, via any web enabled device,

## AN OPTIMAL COMPRESSION

OPTIACCESS COMPRESSES UP TO 99% OF AN IMAGE SIZE WITHOUT QUALITY LOSS including read, forward, reply, attachments and filing. With OptiACCESS, you can connect to the internet for only the time required to send and receive data. Moreover, in case you get disconnected, OptiACCESS resumes data transfer from the exact point of interruption.



## CHOOSE WHAT YOU RECEIVE

OptiACCESS «BigMail» prompts you with the subject and email size so you can decide whether (and when) you want to download a large file from someone. Moreover, OptiACCESS helps you to manage your mail flow with the ability to whitelist or blacklist certain email addresses. Our systems come with multiple virus scanners and spam filters to provide safe and relevant mails to you while ensuring compliance with data protection legislations.

## **SAVE UP TO 95% ON YOUR BILLS**

OPTIACCESS ONLY GENERATES
AN AVERAGE OF 5% OF THE
DATA CREATED BY A STANDARD
EMAILING SOFTWARE



## STAY CONNECTED EVERYWHERE

OptiACCESS makes web browsing easy with XWeb (optional). This web portal blocks ads, compresses texts and images, and deletes all wallpapers (too data consuming).

Browse web pages that load 3 to 5 times faster! Share your experiences on social media and Sailblog (optional) directly with OptiACCESS. A shortcut allows you to set up your accounts and post compressed images and texts via email.





## LEVEL UP WITH OPTIMIZER

For your L-band connections, improve OptiACCESS performance with the Optimizer.

Easily connect your devices to the Optimizer (computers, smartphones, tablets, etc.) using WiFi or cellular data (3G/4G/LTE). The Optimizer works with OptiACCESS to ease access to your emails, web, weather files, social media platforms, and even automatically sends your GPS position to be geolocated.

A powerful firewall blocks all undesired connections to avoid unexpected data consumption, leaving you the ability to configure your network's access to your preferred devices.



### **SECURITY**

Malware Detection, Virus Scans, and Spam Filters
OptiAccess servers scan every message for viruses and
SPAM, blocking them before they enter your satellite
communications system to save airtime and keep
your machines clean. OptiAccess also has full DES/PGP
encryption for optimum security.



### **COMPATIBILITY**

Compatible with:

Windows

iOS

Android

Works with equipment of all major satellite operators:

- Inmarsat
- GlobalStar
- Iridium
- Telenor

Thuraya

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#### THE COMPLETE DATA COMPRESSION & EMAILING SOFTWARE

OptiSIM is a web-based solution which provides, via a secured (SSL) access, the ability for IEC Telecom customers to manage and monitor all their satellite lines (SIM cards, VSAT links or devices), call details and invoices, enabling an extensive follow-up of prepaid and postpaid accounts.

**PROVISIONING** 

ACCOUNT MANAGEMENT & FOLLOW-UP

BILLING & INVOICING



#### ONE UNIQUE TOOL TO MANAGE ALL YOUR PROVISIONING NEEDS IN REAL TIME

OptiSIM allows any customer, once identified, to access its satellite-based lines and place orders to:

- Handle the SIM card or line activation
- Add credit to the prepaid lines
- Manage postpaid subscriptions (change plan: upgrade or downgrade, deactivation, suspension.)

All customer orders are stored and executed within the predefined SLA.



#### EXTENSIVE FOLLOW-UP OF YOUR TRAFFIC AND ACTIVITY

OptiSIM has been designed to provide a complete overview of telecommunications activities on the deployed fleet, including information such as:

- Calls/ data session, date and location for all devices
- Volume usage (voice/data usage in MB, minutes or USD)
- Perform specific requests on traffic report
- Rename and edit account devices (SIM cards or lines) to make invoicing clearer when customers manage multiple accounts or lines
- Create consumption alerts and receive notifications when the threshold is exceeded (in MB, minutes or USD)

Example: create a low balance or expiration alert and receive a notification when a SIM card needs to be recharged. For postpaid, set up a high usage alert.

Follow-up specific fleets (eg. SCAP).



#### EASY BILLING AND INVOICING MANAGEMENT

OptiSIM collates and aggregates all call details and automatically stores and delivers monthly invoices in PDF and/or Excel formats. For billing purposes, customers can use OptiSIM to:

- Manage their invoice currency (€, USD, AED, SGD, NOK, ZKT, SEK, DKK) – Multi-currency tool
- Consult and export past invoices when needed (unlimited invoices history)
- Consult all SIM details for all usage types (ahead of invoice creation)



# EXTENDED ACTIVITY REPORTING TO ADAPT/ ADJUST YOUR OPTIONS

OptiSIM enables users to make specific requests to the database. These requests can be based on various criteria such as:

- Date
- Network
- Call type (voice or data)

Therefore, customers can get a complete snapshot of all their SIM cards or lines activity for a specific period of time (per day, month or year).

### EASY & EFFICIENT ACCOUNT MANAGEMENT TOOL:

access your data 24/7 wherever you are.

#### **TRAFFIC MONITORING:**

complete logs details for both prepaid and postpaid accounts.

#### **USAGE & REPORTING:**

access and download account and billing history.

#### PREPAID ACCOUNT:

order, activate and recharge. check account balances and call details.

#### **CONSUMPTION LIMITS & ALERTS:**

set specific limits for a device(s) or groups of postpaid SIM cards and receive email notifications when the limit is reached.





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## **OPTI**VIEW

#### AN ONLINE DASHBOARD TO GIVE YOU FULL VISIBILITY



IEC Telecom is committed to providing its customers with full visibility of their SATCOM assets. Whether it is an L-Band SIM card or a VSAT link, you can get subscription information and monitor the current status of the link. Get even more from your OptiView dashboard when using IEC Telecom's OneGate box such as the current GPS location, the path of the vessel, and more value-added services.



## HISTORY OF BANDWIDTH USAGE

Get a detailed bandwidth usage graph per network in order to get better insights about what is happening on-site or onboard the vessel. This will offer a depth of understanding about the total bandwidth usage as well as its distribution between corporate and welfare consumption.



## ADVANCED FILTRATION MANAGEMENT

IEC Telecom OptiView provides fleet managers with

the possibility to control filters remotely and disable any specific profile with immediate effect. Based on the situation or consumption level, the IT/fleet manager can decide to apply a more restrictive profile at any given time or provide access to a larger number of categories to ease the restrictions.



## USAGE DETAILS REPORT

IEC Telecom OptiView dashboard can provide complete consumption details based on visited websites and applications as well as the blocked requests on-site and onboard. This full visibility can help the IT/fleet manager to better understand crew needs and adjust the filtration levels.



## CREDIT LIMIT MANAGEMENT

Whether it is for the L-Band terminal or VoIP service, IEC Telecom OptiView gives you the opportunity to monitor the usage over critical lines and set notifications for data consumption. You can even configure a specific threshold or credit limit that will result in the suspension of the line as soon as the limit is reached.



## VOUCHERS MONITORING

IEC Telecom OptiView provides the IT/fleet manager with full visibility over the vouchers being used onboard. Once the voucher connects for the first time, all the statistics such as the validity, the data consumption, and remaining data bundle per user will be visible to the IT manager to enable proper forecasting of usage and vouchers provisioning.



## WEATHER & SIGNAL MONITORING

IEC Telecom OptiView offers the possibility to access detailed weather conditions based on the location of the VSAT being used as well as the signal levels of the used antennas. This will provide a better view and help forecast any future degradation of service. The signal level history is a very good tool to monitor past degradation and help schedule maintenance windows in order to enhance the end-user experience.



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### **OPTICONNECT**

#### DIGITALISATION FOR LOW BANDWIDTH ENVIRONMENTS

Digitalisation empowers remote communities and offers access to new communication technologies in areas with no/limited GSM coverage. Remote field teams are assured of connectivity even in low bandwidth environments and can easily access data services in a user-friendly virtual environment. Not only does this increase operational efficiency, digitalisation also optimises capital investment in hardware and saves the cost and complex logistics involved to send technicians to far-flung sites.

Powered by DigiGone, OptiConnect applications have been especially designed to operate in a low bandwidth environment. This incredible set of solutions is optimised for remote communities, including handsfree and multi-party videoconferencing, live technical assistance, large file exchanges, and advanced surveillance.

OptiConnect enables cost-effective connectivity no matter how remote the region may be.



Optimised application for videoconferencing



Remote maintenance delivered over hands-free handset



Video surveillance software with advanced remote access



Portable digital telemedicine kit



#### **ONETeam**

OneTeam users can simultaneously communicate with real-time voice, text, video, and data transfers to make critical business decisions and stay in touch with their friends and families. With live remote technical support, OneTeam delivers the most comprehensive communications solution for teams no matter where they operate. The app features include:

- Optimised videoconferencing and file exchanges, enabling remote teams to fix a problem/apply an update without the need to send a technician onsite
- Advanced visibility for experts from HQ and vendors to examine the issue first-hand via a realtime video stream
- Bandwidth control functionality



### ONEMonitor

OneMonitor is a software-controlled CCTV system that operates on managed bandwidth communication solutions and is easily accessible on a laptop, smartphone or tablet. The app's consumption rate ranges from as low as 6Kbps up to 500Kbps.

The app features include:

- Ability to remotely monitor assets in real-time, simultaneously and securely
- AES 256-bit encrypted transmissions
- Enhanced operational efficiency for remote assets, field personnel, and revenue
- Remote access to recorded data to support forensic investigations and incident reviews
- Alarm triggers upon contact or video motion



#### ONEAssist

OneAssist enables virtual assistance to remote units and extends the complete knowledge resources of the organisation to the field in real-time. With a secure voice-controlled headset, field personnel can stay in touch with HQ, share snapshots of ongoing onsite issues, and receive live technical assistance from the shore expert even in low bandwidth and hard to reach environments. Specially designed for remote collaboration, OneAssist is perfect for IoT data visualisation, guided workflow, document navigation, and remote mentor video calling. The app features include:

- Video and audio teleconferences
- IM and file transfers
- Secure communications



#### **ONEHealth**

OneHealth is the definitive telemedicine care system that brings real-time decision support to the field. Whether medical staff operates onboard a vessel, on an onshore platform, or as part of a humanitarian mission in an area with limited to no GSM coverage, OneHealth provides reliable connectivity for critical communications over a user-friendly dashboard. The app features include:

- AES 256-bit encrypted transmissions
- Multi-party video, voice, text and file transfer
- Secondary private channel video collaboration
- Live medical device data streaming
- Remote control

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## GLOBAL 24/7 TECHNICAL SUPPORT

A DEDICATED TEAM TO ASSIST YOU ANYTIME



IEC Telecom is committed to providing customers not only with voice and data satellite connectivity, but also with tailored services that ensure optimum use and control over their communications.

Our support team is dedicated to offering the best possible customer service that ensures the highest satisfaction levels.

- **TECHNICAL SUPPORT**
- **OUTPMENT QUERIES**
- **AIRTIME QUERIES**
- ACTIVATION/DE-ACTIVATION/ SUSPENSION/ BARRING REQUESTS
- **OUTPUT** PLANNED MAINTENANCE QUERIES
- **OUNPLANNED OUTAGE QUERIES**

Our 24/7 support team can assist you in different areas across the globe in many languages.

With five channels of technical support, you're guaranteed bespoke customer service to best suit your business needs.



#### **EMAIL SUPPORT**

### STANDARD EMAIL SUPPORT – support-global@iec-telecom.com

Available from 9am to 6pm (CET time), Monday to Friday.

When you send an email to the above address, a ticket is automatically created and updated.

Your Account Manager is automatically added to the request when you write from your corporate email address.

### PREMIUM EMAIL SUPPORT – upon request and accreditation

A new email raises a ticket and updates are added to it automatically when you write in from your corporate email address. Automatic reminders are also generated. Notifications are sent to all the involved parties as per the SLA contract.



### GLOBAL 24/7 HOTLINE

Upon emergency and customer accreditation, you can call your Account Manager to find out more about this service.

Middle East: +971 (0)4 55 86 497 Europe: +33 (0) 1 70363232



#### IEC WHATSAPP BUSINESS

No matter where you do business, you can request technical advice or solve signal problems via the interactive chat. This channel is a useful and costeffective way to get qualified help regardless of your deployed condition or location.

WhatsApp Number: +971 50 242 42 38





You can access this channel via the Technical Support page on the IEC Telecom website or follow directly at **ticketing.iec-telecom.com.** 

#### TRY OUT OUR TICKETING

- Standard SLA\*: Customer tickets are processed between 9am to 6pm (CET time), Monday to Friday.
- Premium SLA: Tickets are processed 24/7 for all customers under this specific contract - ask for it!

\*Service Level Agreement



## DOWNLOAD CENTER

You can access a wide library of resources, including installation manuals, user guides, software updates, and more. All resources are conveniently stored at an online Download Center, accessible via the IEC Telecom website.



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## **IRIDIUM**

9555

#### THE SMALLEST AND MOST POWERFUL IRIDIUM PHONE

The Iridium 9555 provides reliable connectivity from anywhere and can handle any environment. Iridium 9555 is ruggedly built and presents a more hand-friendly form and aerodynamic features such as an internally stowed antenna.

It incorporates innovations such as integrated speakerphone, improved SMS and email messaging capabilities and an upgraded Mini-USB data port. It continues the evolution of satellite phones, making communication more efficient and effective for users.

Iridium 9555 features an intuitive user interface – making reliable communication more efficient than ever. It has been made so easy that users can start making calls right out of the box, skipping the traditional learning curve.

#### **CHARACTERISTICS**

- Oimensions: 143 x 55 x 30 mm
- Weight: 266 g
- Battery Talk Time: Up to 4 hours
- Battery Standby Time: Up to 30 hours
- Data: Up to 13 kbps
- Voice: 2.4 kbps
- Integrated speakerphone
- Headset and hand-free capability
- 200 characters illuminated graphic display
- Volume, signal and battery strength meters

- Illuminated weather-resistant keypad
- Integrated speakerphone
- Quick-connect to Iridium voicemail
- Two-way SMS and short email capability
- Pre-programmable International Access Code (00 or +)
- Mailbox for voice, numeric and text messages
- Selectable ring and alert tones (8 choices)

#### **INTERFACES**

- USB interface
- Mini USB data port

#### INCLUDED IN THE PACK

- Iridium 9555 handheld
- AC charger
- International plug kit
- DC travel charger
- USB data cable
- Auxiliary antenna adapter
- 5' External auxiliary antenna
- Hands-free headset
- Leather case
- Quick start guide, user guide on CD

## **IRIDIUM** 9575 - EXTREME

#### MORE FEATURES THAN ANY OTHER HANDSET

Iridium 9575 - Extreme is engineered with more features than ever before and with more accessories than any other satellite phone on the market. Providing continuous connectivity all around the world, it provides users with many advanced features: customizable GPS and location-based services, online tracking, emergency SOS notification, etc.

It's rated IP65 as it is dust and splash proof. The keys on the phone are all large and backlit, so the phone is easily operable anywhere, even with thick gloves on. Combined with a rubber grip on the outside edges, the phone is very accessible, no matter what situation you're in. If you won't have access to a charging port during your trip, you can either buy another Iridium Extreme battery or simply get an external battery to double or triple the standby time. In the end, satellite phones should be used for calling and emergency services, for which the Iridium Extreme is currently the best.

#### **CHARACTERISTICS**

- O Dimensions: 140 x 60 x 27 mm
- Weight: 247 g
- Battery Talk Time: Up to 4 hours
- Battery Standby time: Up to 30 hours
- Display: 200 characters illuminated graphic display
- Volume, signal and battery strength meters
- Integrated speakerphone
- Quick-connect to Iridium voicemail
- Two-way SMS and short email capability
- Pre-programmable International Access Code (00 or +)

- Mailbox for voice, numeric and text messages
- Military-grade ruggedness
- Ingress Protection: IP65
- Call history retains received, missed and dialed calls
- User-configurable call timers to manage costs
- Keypad lock and PIN lock for additional security

#### **INCLUDED IN THE PACK**

- Iridium Extreme handheld
- Travel charger with international adapters
- Car Charger
- USB Data Cable
- Hands-free earpiece with microphone
- 2 accessory adaptors (necessary to charge the handheld and connect the antennas and accessories via USB Cable)
- Magnetic vehicle mount antenna with cable
- Leather case
- User Manual, Quick Start guide, CDROM with software

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## **IRIDIUM**EXTREME PTT

MOBILE HANDSET DESIGNED TO SUPPORT HIGH INTENSITY USERS EVEN IN THE HARSHEST ENVIRONMENTS

Iridium Extreme Push-to-Talk is a completely mobile satellite handset, removing the need to be in or around vehicles. It is engineered to support critical communications and high intensity users even in the harshest environments, and offers crystal clear voice communication for an evolving talk group where the users can be automatically registered via visual and audio scans.

Iridium Extreme PTT is the toughest push-to-talk enabled satellite phone in the market whose configuration can be adjusted over-the-air.

#### **FEATURES**

- Diamond treaded, taper grip ergonomics
- Integrated loudspeaker
- Rugged, high-gain antenna
- Daylight-readable, glare-resistant display
- Mini-USB data port
- 25mm headset and hands-free capability

#### **BENEFITS**

- Automatic registration of talk group
- Visual and audio talk group scan
- Maintains critical communications with device talker ID and PTT service status
- High audio loudspeaker and rugged,

- high-gain antenna
- Water, shock, and dust resistant (IP65 rated)

#### **CHARACTERISTICS**

- Size: 140 x 60 x 32 mm
- Weight: 268g
- Battery Standby Time: Up to 54 hours
- Battery Talk Time: Up to 6.5 hours
- PTT Standby time: Up to 16.5 hours
- PTT Talk Time: Up to 5 hours

#### **INCLUDED IN THE PACK**

- Iridium Extreme PTT device
- Leather case

- High capacity battery
- Travel charger with international adapters
- Car charger
- USB data cable
- Two accessory adaptors
- Magnetic vehicle mount antenna with 5' cable
- Hands-free earpiece and microphone
- User manual
- Shoulder-mounted carrying case, docking stations and external antenna sold separately.



## IRIDIUM EXTREME® SPECIAL EDITION



Rugged durability of Iridium Extreme® with a new design



Integrated GPS-enabled location-based services



Superior in-hand ergonomics



Pole-to-pole coverage

STOCKS ARE LIMITED.

GET ONE BEFORE IT'S GONE!

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## IC-SAT100

SINGLE MODE PTT - SATELLITE RADIO WALKIE TALKIE, OFFERING **REAL-TIME COMMUNICATIONS ALL AROUND THE WORLD** 

The IC-SAT100 provides loud, crisp Iridium PTT in a highly durable handheld radio with the user attributes of a terrestrial LMR.

Thanks to its simple & easy-to-use user interface with robust body, it can be used for group calls (up to 15 groups) and is largely independent of terrestrial infrastructure.

Users can immediately start talking to all the radios in the same talk-group by just pushing the transmit (PTT) button. IC-SAT100 offers secure conversations with AES 256-bit encryption.

#### **FEATURES**

- Simple land mobile radio with features that radio users need most
- · Large high audio front facing speaker
- Top-facing talk group selector and
- Removable/replaceable flexible antenna
- Extreme durability and feel
- 4 soft keys (no-keypad)
- Real-time, low latency communication
- Built-in Emergency Key

#### **CHARACTERISTICS**

Dimensions: 135 x 57.8 x 32.8 mm

- Weight: 300g (with BP-300 and antenna)
- Battery Talk Time: Up to 7 hours
- Operational temperature range: -30°C to +60°C
- Built-in Bluetooth and GPS receiver
- Multiple language display (English, Chinese, French, Japanese, Spanish)
- Full MIL Std 810F and IP 67 dust, shock, moisture
- Text message and voice recording
- 14-Pin connector for LMR accessories
- USB connector

- SMA type antenna connector for an external antenna
- Compatible with other Iridium PTT Battery Standby Time: Up to 14.5 hours models, including Iridium Extreme PTT
  - Interoperability with IDAS and analog radios through the Optional VE-PG4, RoIP Gateway

#### **INCLUDED IN THE PACK**

- IC-SAT100 PTT
- BP-300 battery pack
- BC-241 desktop charger
- BC-242 AC adaptor
- FA-S102U antenna
- MBB-5 belt clip

## IC-SAT100M



**REAL-TIME GLOBAL PTT RADIO COMMUNICATIONS** FOR IN-BUILDING AND IN-VEHICLE USE

Offering real-time communications at the push of a button anywhere in the world, ICOM IC-SAT100M is a dedicated satellite push-to-talk (PTT) radio that operates on the pole-to-pole Iridium network. Leveraging LEO satellites, its state-of-the-art PTT button instantly connects users with all the radios in the same talkgroup.

The ICOM IC-SAT100M can easily interconnect with an IP phone, WLAN, LTE, IDAS digital, and analog transceivers. Providing reliable network coverage, low-latency communication, and voice recording function with an integrated multi-functional speaker-microphone, this versatile satellite radio is ideal for both in-building and in-vehicle use.

#### **FEATURES**

- Real-time PTT radio talkgroup communications
- Pole-to-pole network coverage over the Iridium network
- Multi-functional speaker-microphone
- Integrated GPS receiver
- IP67 waterproofing and dust protection

#### **CHARACTERISTICS**

- Weight
- Antenna: 500 g
- · Main Unit: 950 g
- Main Unit + Microphone: 1200 g
- Dimensions

- Antenna: 76.8 x 200 x 76.8 mm
- Main Unit: 125 x 29 x 156.5 mm
- Microphone: 59.5 x 134.6 x 30.1 mm
- Operational temperature (°C): -30°C to
- Power Supply Voltage: 13.2 V / 26.4 V DC
- Audio Output Power
- Internal Speaker: 1500 mW typical (8 Ω
- External Speaker: 4 W typical (4 Ω load)
- Frequency: 1616 MHz to 1626.5 MHz
- Ingress Protection
- · Antenna: IP67
- · Main Unit: IP54

- Microphone: IP55
- Antenna SMA
- Built-in Bluetooth Capability
- Multiple Language Display
- AES 256-bit Encryption

Integrated GPS Receiver

- Short Data Message
- Talkgroup: Up to 15
- **IN THE BOX**
- Multi-functional speaker-microphone
- OPC-2435 DC Power Cable
- OPC-2102 LAN Cable (20m)
- Mobile Bracket

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The IsatPhone 2 is designed to operate even in the most extreme conditions.

With a faster network registration (under 45 sec), an unrivalled battery life offering 8 hours talk time and 160 hours of standby time, users can always depend on the IsatPhone2. It provides excellent voice clarity, call stability and an easy-to-use interface with a large high visibility screen. Thanks to GPS location services, position can be sent by text message in case of emergency.

IsatPhone 2 is a tough phone for a tough world. The robust handset has been engineered to cope with anything that nature can throw at it.

Together, IsatPhone 2's design and capabilities – including safety features – make it ideal for the most demanding of users.

#### **FEATURES**

- Dependable connectivity
- High voice quality
- Voicemail, text and email messaging
- Extended battery capacity
- Assistance button sends GPS location data and text to pre-set emergency number
- Tracking sends location information
- Bluetooth for hands-free use
- Incoming call alerts with antenna stowed
- Ergonomic and ruggedised handset

#### **CHARACTERISTICS**

- Dimensions: 169 x 52 x 29 mm (without antenna) 169 x 75 x 29 mm (with antenna)
- Weight: 318 g (including battery)
- Display: high contrast colour screen
- Battery Talk Time: Up to 8 hours
- Battery Standby Time: Up to 160 hours
- Voice: 2.4kbps voice codec
- SMS: 160 characters supported
- GPS Location Data: view position and send as text/email
- Ingress Protection: IP65 / IK04
- Bluetooth 2.0 supported

#### **INTERFACES**

- Bluetooth 2.0
- Micro USB
- Audio Socket
- Antenna Port

#### **INCLUDED IN THE PACK**

- IsatPhone 2 Handset
- Battery
- Chargers
- Main universal AC charger (4 adaptors)
- Car charger 10-30V
- Micro USB cable
- Wired handsfree headset
- Quick start guide (8 languages)
- Support USB memory driver
- Holster

While the days of bulky satellite equipment are long behind us, the Thuraya XT-Lite is an exceptional product in the increasingly mobile satellite communications market. It is not just easy-to-use, light-weight, and technologically

advanced, it is also lighter on the wallet and the best-value choice for your organization's annual budget.

Designed for cost-conscious users, the Thuraya XT-Lite offers uninterrupted secure connectivity even in the most remote areas of the world. With Thuraya's unparalleled satellite network, you can enjoy crystal clear communications and access reliable data connections at the most cost-effective and unbeatable value, exceeding any other product in the satellite communications market.

#### **FEATURES**

- Calls and text messages in satellite mode: Make calls and send SMS messages in satellite mode whenever there is no terrestrial network available. The advanced omni-directional antenna ensures uninterrupted communications, offering seamless walk-and-talk functionality for calls-on-the-go.
- Long-lasting battery life: Thuraya XT-LITE enables reliable communications with a long-lasting battery which provides up to six hours talk time and up to 80 hours standby time.
- Ease of use: Simply charge your phone and ensure that your SIM card is working. It's that simple. You can then program the Thuraya XT-LITE to one of the 12 languages available.
- Supported by the most robust and powerful satellite network: Thuraya's satellite network is renowned for having the most reliable satellite coverage, including approximately 160 countries or two-thirds of the globe. The Thuraya XT-LITE enables you to receive a call notification even with

the satellite antenna stowed, keeping you connected at all times. Additional features include: address book, alarms, calculator, calendar, call logs, conference calls, contact groups, speed dialing, stopwatch, world time, and many more.

Accessories: Thuraya has developed a set of accessories for the XT-LITE to provide extended mobility when needed.

#### **CHARACTERISTICS**

- o Dimensions: 128 x 53 x 27 mm
- Weight: 186 g
- Services: Satellite calls and SMS
- Network Frequency: L-Band
- Battery Talk Time: Up to 6 hours
- Battery Standby Time: Up to 80 hours
- Network Features: Call barring, call diverting, conference calls, call waiting, closed user groups, and voice mail
- Value-added Features: Address book, Alarms, Calendar, Calculator, Stopwatch, World time, and more

#### **INTERFACES**

- USB Data Cable (UDC) with USB connector
- Ear Jack (2.5 mm)
- DC Power

#### **INCLUDED IN THE PACK**

- Thuraya XT-Lite satellite phone
- Battery
- Universal travel charger
- USD data cable
- User guide

#### **OPTIONAL ACCESSORIES**

- Car charger
- Solar charger
- Indoor repeaters
- Earphones
- Spare batteries
- Spare travel chargers (with EU/UK/ CHN/ AUS plugs)
- Spare data cables

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Designed for professional users, Thuraya XT-Pro is one of the most advanced satellite phones which is ruggedized and equipped with long battery life, ensuring connectivity no matter where you go.

The Thuraya XT-Pro is the first satellite phone with built-in GPS, Beidou and Glonass capability for highest flexibility in all regions. It has a large display and comes with hardened Gorilla glass for harsh environments.

Using the Thuraya XT-Pro, you can make phone calls, send messages in satellite mode and also use a satellite data connection to send and receive emails or browse the web with a connected laptop or PC. For emergencies, it has a dedicated SOS button with advanced navigation and tracking features.

No matter where you are within Thuraya's extensive coverage area or how remote your location, the Thuraya XT-Pro keeps you connected.

#### **CHARACTERISTICS**

**SATELLITE PHONES** 

- Dimensions: 128 x 53 x 27 mm
- Weight: 212 g
- Call and messaging services: Satellite calls, SMS, SMS to email, fax
- Data services:
  - GmPRS: Up to 60/15 kbps (down/up)
  - Circuit switched 9.6 kbps
- Battery Talk Time: Up to 9 hours
- Battery Standby Time: Up to 100 hours
- Global Navigation Satellite System (GNSS):
- GPS
- BeiDou
- Glonass

- Display: 2.4" toughened Gorilla glass outdoor display
- Ingress Protection: Jet water resistant, dust resistant, shock proof (IP55/IK05)
- 13 languages supported

#### **INTERFACES**

- Micro USB charger
- UDC jack for data transmission
- Earphone connector (3.5mm)
- Antenna connector for docking units

#### **INCLUDED IN THE PACK**

- Thuraya XT-PRO satellite phone
- Battery

- Universal travel charger
- Car charger
- USB data cable
- Support CD
- User guide

#### **OPTIONAL ACCESSORIES**

- Car charger
- Solar chargers
- Fixed Docking Units
- Indoor repeaters
- Spare batteries
- Spare travel chargers (with EU/UK/CHN/ AUS plugs)
- Spare USB data cables

#### THE FIRST AND HOLD SAILEEFIE & COMPTIONE

The Thuraya X5-Touch is the world's first Android<sup>™</sup> based satellite & GSM phone offering unparalleled flexibility. It runs on the Android operating system and has a 5.2″ full HD touchscreen for users who frequently move in and out of terrestrial coverage.

The Thuraya X5-Touch provides you with an uninterrupted network connection in any environment. It further bridges the gap between terrestrial and satellite communications through its full dual mode, and provides you the ability to have satellite and GSM smartphone modes "always on" simultaneously. It incorporates two nano SIM-card slots to easily switch between modes.

Its GMPRS is up to 60/15 kbps (download/upload). The first satellite phone, which runs on the Android platform from Google, has a dedicated SOS button, which is easy to use in time of distress. The product provides WiFi, Bluetooth and NFC connections. Now, you can stay in touch with only one smartphone.

#### 10 REASONS WHY

- State-of-the-art network coverage:
   Terrestrial coverage across a range of market sectors, including remote areas.
- 2. Dual mode capability: 'Always on' SAT and GSM networks for a truly dual experience.
- Advanced navigation capability: Ability to send current location details to pre-defined numbers based on pre-set time intervals, distance travelled, or movement between pre-set geofences.
- **4. Dedicated SOS button:** Dedicated SOS button even when phone is switched off.
- **5. Fully rugged phone:** Most rugged phone in the industry with IP67 standard and MIL 810 G/F compliance.
- 6. Powerful battery: Most powerful battery with a standby time of up to 100 hours.
- Cutting-edge antenna: Omni-directional antenna that's designed to ensure enhanced mobility.
- 8. Fully customizable apps: Easily personalized phone experience with preloaded apps on the Google platform as well as access to apps from Google Play.

- **9. Inbuilt phone sensors:** Sensors include gyroscope, accelerometer & geomagnetic, ALPS, and digital pressure.
- 10. Active noise cancelling: Multimicrophone active noise cancelling for crystal clear communications.

#### **CHARACTERISTICS**

- SIM cards
- Satellite: 1 SAT SIM slot (nano-SIM)
- GSM: 1 GSM SIM slot (nano-SIM)
- Data services
- Satellite: GmPRS: Up to 60/15 kbps (download/upload) | Circuit switched: 9.6 kbps
- LTE: Up to 300/150 mbps (download/ upload)
- Oimensions: 145 x 78 x 24 mm
- Weight: 262 g
- Operating System: Android Nougat (7.1.2)
- Processor: Qualcomm Snapdragon 625, 2 GHz octa-core
- Battery: 3800 mAh

- Battery Talk Time: Up to 11 hours
- Battery Standby Time: Up to 100 hours
- Global Navigation Satellite System (GNSS): GPS, BeiDou, Glonass
- Display: 5.2" full HD LCD touchscreen (1920 x 1080) with Corning Gorilla® glass (capacitive display works also with gloves and in wet conditions)
- Ingress protection: Water resistant, dust resistant (IP67), Complies with MIL-Standard 810 G/F (shock, vibration, extreme temperature)
- Camera
- Rear camera: 8MP with flash
- Front camera: 2MP
- Memory
- 16 GB eMMC memory
- 2 GB RAM
- Expandable memory up to 32 GB via microSD (optional)
- Other networks: Bluetooth 4.1, A2DP, LE; NFC; FM radio; WiFi 802.11 a/b/g/n/ac, WiFi direct, WiFi Hotspot

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#### **GET SATELLITE CONNECTIVITY ON YOUR SMARTPHONE**

The Thuraya SatSleeve Hotspot is a compact and lightweight satellite Wi-Fi hotspot. It provides users with voice and data connectivity on smartphones or tablets via Wi-Fi.

You remain connected wherever you go under the extended coverage of Thuraya's network. Even when you are on the move, you can make phone calls, send text messages and use your smartphone apps no matter the availability of local network.

Using Thuraya SatSleeve Hotspot means no more roaming charges! You benefit from a single rate over the 160 countries of Thuraya's network. Easy to deploy, you just need to download the application from the App Store or Google Play and then get connected in few seconds.

#### **FEATURES**

- Calls and Text Messages in Satellite Mode: Use your smartphone in satellite mode when there is no terrestrial network available. Make that all important call and send text messages using your existing list of contacts.
- Email On-the-Go: Send and receive emails no matter where your adventures take you.
- Apps: Access your favorite apps while you're on the move – Social Media, Instant Messaging, information apps and many more.
- Compatibility: The SatSleeve Hotspot App is available as a free download from the App Store or from Google Play. Our app is available in 12 languages.

- Easy-to-Use: Simply connect your smartphone via Wi-Fi to the satellite unit and stay connected.
- SOS Button: The SatSleeve+ and SatSleeve Hotspot both come with a programmable SOS call button that works even if your smartphone isn't connected. The SOS button will make an outgoing call to a predefined number of your choice.

#### **CHARACTERISTICS**

- O Dimensions: 142 x 69 x 38 mm
- Weight: 290 g
- Battery Life:
- Talk Time up to 3 hours
- WiFi continuously on: up to 9 hours
- WiFi off: up to 70 hours\*

- (\*incoming calls and SOS function still available on main unit)
- Voice
- Data: Download up to 60 Kbps /Upload up to 15 Kbps (GmPRS)
- Power Supply: Output DC 5V/2.0A (with EU/UK/CN/AUS adaptors)
- Operating Temperature: -10°C to+55°C
- Storage Temperature: -20°C to + 70°C
- Battery: 3.7V Li-ion, 24400 mAh

#### CONNECTIVITY

- 3.5 mm jack for headset
- Micro USB for charging and upgrade
- DC charging jack

#### YOUR SMARTPHONE CONNECTED ANYTIME ANYWHERE!

Iridium GO! creates the first ever reliable global connection for voice and data communications on your smartphone or up to 5 mobile devices.

No roaming charges. Just connect whenever you need, with the device you rely on everyday.

Iridium GO! dramatically extends the capabilities of any smartphone, laptop or tablet by creating a satellite-backed WiFi hotspot anywhere on the planet.

Simply flip up the integrated antenna and the battery-powered unit connects quickly and automatically to the Iridium LEO (Low Earth Orbit) satellite constellation.

#### **FEATURES**

- Connect through Iridium Apps available for iPhone and Android smartphones
- Initiate voice calls
- Send Twitter posts
- Set up WiFi data calls
- Activate Emergency SOS
- Draft and view emails offline
- Configure email size to reduce connection time
- Queue-up emails to be sent up to 15x faster than web-based services
- Retrieve emails from external accounts
- Block pop ups, remove ads and background images

 Compress web pages for download speeds of 3 - 5 x faster than uncompressed pages

#### **CHARACTERISTICS**

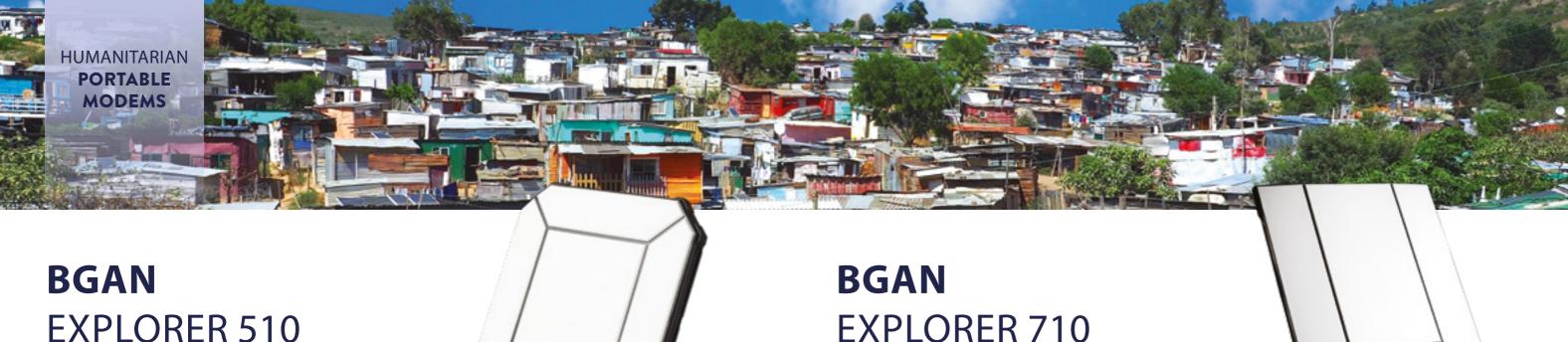
- Dimensions: 114.3 x 83 x 32 mm
- Durability Specifications:
- Military-grade ruggedness (MILSTD810F)
- Protection class: IP65
- Easy to Use:
- Stable, lay-flat design
- Flip up antenna
- Built-in menu/status display
- Flexible:

- Wi-Fi device ready
- App API for developers
- Robust accessory platform

#### **INCLUDED IN THE PACK**

- Battery
- Universal AC Travel Charger
- USB Charging/Data Cable
- Four International Adaptors
- DC Adapter (Car Charger)
- Protective Cover
- User Manual
- Legal Information Booklet
- GEOS Emergency Service Brochure

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## **EXPLORER 510**

BY COBHAM

**ULTRA-PORTABLE SATELLITE BROADBAND TERMINAL** 

The Explorer 510 is based on the Inmarsat BGAN network and is the ideal combination of performance and portability.

Smaller than a regular laptop and weighing less than 1.4 kg, this satellite terminal is easy to carry, deploy and offers IP connectivity up to 464 kbps (standard IP).

It also provides Streaming IP connectivity up to 128 kbps (guaranteed connectivity), voice capabilities and is equipped with a WiFi interface.

#### **FEATURES**

- Explorer Connect App for IOS and Android
- Convert your smartphone into a satellite phone
- Access your terminal from your smartphone
- Explorer LTE Modem for USB (optional):
- Connect to the local cellular network and use the Explorer 510 as wireless router for all your portable devices (smartphone, laptop, tablet)

#### **CHARACTERISTICS**

- Dimensions: 202 x 202 x 51.8 mm
- Weight: 1.4 kg

- Interfaces:
- 1 x USB 2.0 Port
- shared channel;
- Streaming IP: 32, 64 or 128 kbps
- Wi-Fi access point
- SMS 160 characters supported
- Ingress Protection: IP66
- Standby Time: 36 hours
- Transmit Time: 2 hours 15 min

LED (WLAN, status)

- WLAN Access Point
- Standard IP: Send up to 464 kbps over a

- Recharge Time: Less than 3 hours

#### **INTERFACES**

Power button

EXPLORES

- USB Host
- Cobham web interface

#### **INCLUDED IN THE PACK**

- Explorer 510 Terminal
- Rechargeable Lithium Ion Battery
- Explorer Softbag
- USB to Ethernet converter cable
- 100-240 VAC power supply
- Multi-language quick start guide
- Multi-language webserver and embedded manual (ENG, FR, DE,ES, RU, JP and CN)

#### **FEATURES**

- Support for BGAN Bonding (1Mbps QoS)
- Built-in SIP Server

BY COBHAM

**ULTRA-PORTABLE HIGH DATA RATE QUALITY** 

- Smartphone Apps
- Remote Activation & Management
- Battery Hot Swap

#### **CHARACTERISTICS**

- Dimensions: 332 x 279 x 54 mm
- Weight: 3.2 kg
- Interfaces:
- 2 x Ethernet Port
- 1 x analog RJ11 Phone/Fax
- 1 x USB Port

• WLAN Access Point

The new Explorer 710 is at the forefront of high speed & ultra-portable satellite communications.

satellite and drastically enhance the quality of their live broadcast & remote communications.

Standard IP: Send up to 492 kbps over a shared channel;

Ultra-portable & lightweight, the Explorer 710 enables users to benefit from the High Date Rate (HDR) service from

With a guaranteed bandwidth up to 650 kbps, users can leverage the fastest on-demand video streaming service via

- Streaming IP: 32, 64, 128, 256 kbps or
- BGAN X-Stream
- High Data Rate Streaming: 650 kbps or 325 half channel HDR
- Asymmetrical Mode Available
- ISDN: UDI 64kbps/ RDI 56 kbps
- SMS 160 characters supported
- Ingress Protection: transceiver IP52, antenna IP66
- Standby Time: 36 hours, 25°C
- Transmit Time: 2.5 hours
- Recharge Time: 2.5 hours

#### **INTERFACES**

- PMOLED Display
- 5 Navigation Keys
- Compass

#### **INCLUDED IN THE PACK**

- Explorer 710 Transceiver
- Antenna
- Rechargeable Lithium Ion Battery
- Antenna Cable
- 2M ISDN/LAN Cable
- 115/230VAC Power Supply
- Quick Start Guide
- CD with Manuals

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## **THURAYA**

IP +

WORK. EMAIL. SURF. CHAT. ANYWHERE.

The high-speed IP capabilities of Thuraya IP+ enable users to access corporate networks and connect with colleagues, family and friends via email, social media and applications – wherever and whenever they need it.

Providing 'always-on' mobile broadband access, Thuraya IP+ is ideal for a wide range of mission-critical operations such as telemedicine and disaster response.

Together with WAN optimizer, Thuraya IP+ enhances the end-user experience and boasts data speeds of up to 444 kbps on standard IP and 384 Kbps on streaming IP. Moreover, Thuraya IP+ easily supports 1 hour of continuous transmissions on a battery standby life of up to 36 hours. With a light-weight design and external antennae that work on land, water, and vehicles, alongside an unlimited data plan at a fixed monthly rate, Thuraya IP+ is ideal for a wide range of mission-critical operations as well as high bandwidth applications.

#### **FEATURES**

- Together with WAN Optimizer, enabling TCP acceleration and compression to enhance end-user experience
- Centralized filtering and reporting tool for control and better insight on usage
- Light-weight, mobile and compact
- Advanced usage reports to enhance the filter design

#### **CHARACTERISTICS**

- Dimensions: 216 x 216 x 45 mm
- Weight: 1.4 kg
- Interfaces: 1 Ethernet port; WLAN (WEP, WPA and WPA2 encryption)

- Web user interface
- User interface on terminal: LCD panel
- Standard IP: Send up to 444 kbps over a shared channel; Receive up to 444 kbps over a shared channel
- Streaming IP: Guaranteed quality of service 16, 32, 64, 128, 256 kbps or 384 kbps
- Battery life (typical use): 1 hour of continuous transmission at highest rate; up to 36 hours standby time
- Ingress protection: IP 55

#### **INCLUDED IN THE PACK**

- Thuraya IP+ terminal
- Thuraya IP+ lithium-ion battery

- AC/DC power supply: 100-240 Volts (AC)
- Ethernet cable
- Manual and drivers on CD-ROM

Thuraya IP+

#### **OPTIONAL ACCESSORIES**

- Car charger
- Land external antenna
- Maritime external antenna
- Vehicle external antenna
- Battery
- WAN Optimizer

### **THURAYA** WE

SATELLITE & LTE HOTSPOT TO STAY CONNECTED EVERYWHERE

Stay connected everywhere you go with the new Thuraya Satellite and 4G/LTE Hotspot. The WE is the first dual mode hotspot developed to converge satellite with terrestrial communications. No matter where you are, stay in touch with your friends and family at all times.

Easy to use, the WE automatically switches between Satellite and GSM networks using a simple button on the dedicated app. Transform your WE into a Wi-Fi hotspot and enjoy the Internet in a 30m range. Connect up to 10 smart devices to your hotspot and share your best memories on the Internet using Satellite or GSM connectivity!

#### **CHARACTERISTICS**

- System/Frequencies:
- · Satellite: Thuraya L-band satellite
- GSM3G /4G LTE: 800 MHz, 850 MHz, 900 MHz, 1800 MHz, 2100 MHz, 2600 MHz
- Dimensions: 230 x 197 x 24 mm
- Weight: 1.1 kg
- 1 SIM card slot (mini)
- Voice and messaging services: Circuitswitched-satellite calls, VOIP with 3rd party apps, SMS
- Data services: Satellite: GmPRS up to 384kbps

- Battery life in transmission: GSM: Up to 9h - Sat: up to 3h
- Battery life Stand-by Time: GSM:
- Oup to 15h Sat: up to 6h
- Global Navigation Satellite System (GNSS): GPS, BeiDou, Glonass
- Interfaces: WiFi up to 10 users
- Router features: Firewall, Mac Filtering, DMZ, NAT, Port
- Forwarding Ingress Protection: IP54
- Multi-language firmware 8 supported

#### **INCLUDED IN THE PACK**

- Thuraya WE
- AC power adaptor
- SIM adaptors
- Arabic and English user guides

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#### HIGH-PERFORMANCE AFFORDABLE CLASS 2 PORTABLE TERMINAL

Compact, reliable, and budget friendly, the Hughes 9202M land portable terminal delivers high-performance connectivity in the most demanding and extreme conditions. It is ideal for first responders, public safety and mobile healthcare workers, NGOs, corporate disaster planners, and remote personnel. Using the world's smallest class 2 BGAN terminal, it supports video, voice, and data simultaneously, and offers IP broadband speeds upto 464kbps, built-in multi-user Wi-Fi access, external tracking antenna, and automatic context activation (ACA) without a connected laptop, smart phone, or other user device.

#### **FEATURES**

- Backlit LCD user display, including fourbutton control
- Advanced integrated user interface (IUI)
- Automatic Context Activation (ACA)
- XL-band ready
- Assisted antenna pointing with compass and audio tone

#### **CHARACTERISTICS**

- Dimensions
- •Terminal: 216 x 216 x 41 mm
- Stand: 1149.5 x 121.5 x 9.3 mm

- Weight: 1.4 kg
- SAT Continuous Time: Up to 3.25 hours (TX); Upto 5.5 hours (RX)
- SAT Standby Time : Up to 36 hours
- RJ-45 connector
- 2 x RJ-11 analog phone and fax port
- Wi-Fi (802.11 b/g/n) supporting multiuser access
- External tracking antenna connector
- Operating Temperature
- With battery: -5 to +55°C
- With DC supply: -25 to +60°C
- Storage Temperature

- With battery: -20 to +60°C
- Without battery: -25 to +80°C
- Relative Humidity: 95% RH at +40°C
- Rugged and durable IP55 rating

#### **INCLUDED IN THE PACK**

- Hughes 9202M Land Portable Terminal
- Rechargeable lithium ion battery pack
- 1.8m Ethernet cable
- AC/DC adaptor with UK, EU, and US power cables

#### HIGH DATA RATE (HDR) MOBILE SATELLITE TERMINAL WITH VOICE AND WIFI ACCESS POINT

With the world's smallest HDR-capable BGAN, the rugged and lightweight Hughes 9211-HDR is a cost effective High Data Rate satellite broadband terminal. It enables streaming broadband speeds of over 650 kbps with multiuser WiFi access along with the option to connect an accessory vehicular tracking antenna for on-the-move communications. Not only does the terminal offer the highest streaming rates over Inmarsat's BGAN HDR service network, its asymmetric streaming rates allow users to better tailor the service to their individual preferences no matter where they're located.

#### **FEATURES**

- LCD user display, including four-button control
- Advanced web user interface
- Automatic Context Activation (ACA)
- HDR streaming
- Assisted antenna pointing with compass and audio tone

#### **CHARACTERISTICS**

- Dimensions: 232 x 292 x 51 mm
- Weight: 2 kg
- SAT Continuous Time: Up to 2 hours HDR (TX); Up to 4 hours (RX)
- SAT Standby Time: Up to 36 hours

- RJ-45 connector
- 2 x RJ-11 analog phone and fax port
- Wi-Fi (802.11 b/g/n) supporting multiuser access
- Wireless security supporting WEP, WPA, and WPA2 encryption
- External antenna connector
- Operating Temperature
- With battery: -5 to +55°C
- Without battery: -25 to +55°C
- Storage Temperature
- With battery: -20 to +55°C
- Without battery: -25 to +80°C
- Relative Humidity: 95% RH at +40°C

Rugged and durable IP65 rating

#### **INCLUDED IN THE PACK**

- Hughes 9211 Terminal
- Rechargeable lithium ion battery pack
- 5m Ethernet cable
- AC/DC adaptor with UK, EU, and US power cables

#### **OPTIONAL ACCESSORIES**

- External vehicular tracking antenna
- DC-DC power adaptor
- Spare lithium battery
- Extended warranty options

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THE DEFINITE SOLUTION FOR YOUR CRITICAL COMMUNICATION NEEDS

The Thales MissionLINK 700 operates using Iridium Certus broadband services and delivers critical communications to keep you connected regardless of the landscape.

It is the reliable solution for essential communications wherever your mission takes you. Whether you operate as part of a deployed force or as a single individual, this commercialized, military-grade solution is designed to meet your unique challenges through a simple, adaptable, and robust design.

#### **CHARACTERISTICS**

- Dimensions: 280 x 216 x 59 mm
- Weight: 2.8 kg
- Power: 12 VDC input, 11 A max (7 A avg.), includes powering external HGA-2 antenna
- Standard Data Rate: Up to 700 kbps (down), up to 352 kbps (up)
- Streaming IP: Up to 256 kbps
- Connectors front:
- RJ-45 LAN (3) Class 3 PoE
- RJ-45 WAN (1) for cellular connection
- RJ-14 POTS (2) breakout
- Connectors rear:
- DC power input (10-32V) MIL-STD-1275D, + 12V regulated
- GPIO (RS-232, + 12V out, DISTRESS,

- Radio Gateway, GPIO)
- TNC connecter, RF connection to BAA-H2 antenna
- Wi-Fi reverse SMA
- SIM slot, standard
- Mechanical Vibration and Shock: MIL-STD-810G, Test Method 514.6, Proc. I, Category 20, Annex D MIL-STD-810G, Test Method 516.6, Proc. IV
- 3 standard & high quality VOIP voice lines
- SBD & circuit switch (up to 64 kbps)
- Location tracking
- PTT ready

#### ANTENNA SPECIFICATIONS

 High-gain, electronic phased array antenna to enable the fastest upload and download speeds that cover any

- communications need from safety services to operational reporting and logging
- Size: 35.6 cm dia. x 10.2 cm h
- Weight: 3.2 kg
- Power: directly powered by the terminal at 24 VDC
- Operating temperature : -30 to +55 ℃
- Mechanical Vibration and Shock: MIL-STD-810G, Test Method 514.6, Proc. I, Category 20, Annex D MIL-STD-810G, Test Method 516.6, Proc. IV

MissionLINK 200 is specially designed to operate for both individuals and an entire deployed force under

MissionLINK 200 is powered by Iridium Certus, the only satcom broadband network with pole-to-pole coverage. In the capacity of Iridium partner, IEC Telecom delivers high-end satcom services to its customers all over the globe since 2013. In addition, we offer a range of value-added services to ensure the best user experience for your remote teams.

any environmental conditions. Its simple, adaptable, and robust design brings reliable voice, text, and web

#### **CHARACTERISTICS**

- Weight: 3.4 kg
- Dimensions: 5.8 x 30.5 x 22.9 cm
- Power Options
- 10 32 V DC
- AC/DC Supply with 12 V DC
- IP Rating: IP31
- Front Connectors
- RJ-45 LAN (3) Class 2 PoE
- RJ-45 WAN (1)
- RJ-14 POTS
- Rear Connectors
- DC Power Input (10 32 V) MIL-STD-1275D
- DC Power Input (+12 V Regulated)

GPIO

A TRULY GLOBAL TERRESTRIAL SATCOM SOLUTION

communications for fixed as well as mobile users.

- RS-232
- +12 V Out
- Emergency
- Radio Gateway
- Discrete I/O
- TNC RF Connection to Antenna
- WiFi Reverse SMA
- SIM Card Slot
- Mechanical Vibration and Shock
- MIL-STD-810G w/Change 1
- Test Method 514.7
- Category 4

#### ANTENNA SPECIFICATIONS

- Omni-directional antenna that enables the fastest upload and download speeds for safety, tracking, and location services.
- Weight: 0.7 kg
- Dimensions: 12.5 x 14 cm
- Power: 24 V DC (directly by the terminal)
- IP Rating: IP67
- Operational Temperature (Antenna): -40°C to +55°C
- Mechanical Vibration and Shock
- MIL-STD-810G w/Change 1
- Test Method 514.7
- Category 4

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#### FOR QUICK CONNECTIVITY ON-THE-MOVE, LOOK NO FURTHER

Thuraya IP Voyager is a reliable, high-quality and affordable vehicular satellite terminal designed for a wide range of mission-critical on-the-move operations such as border patrol, defense and disaster response in areas inadequately served by terrestrial networks. The terminal enables users to collaborate reliably and efficiently with colleagues using video, data and VoIP to achieve mission-critical tasks, where failure is not an option.

Designed to operate at IP broadband speeds of up to 444kbps, Thuraya IP Voyager is the only vehicular terminal in the market capable of achieving streaming IP speeds of up to 384kbps as well as user definable asymmetric streaming.

#### **FEATURES**

- **Easy installation:** Thuraya IP Voyager is built for comms-on-the-move and can be easily installed in any vehicle. The antenna with its magnetic feet can be fitted in seconds and vehicular satellite unit has simple plug-and-play features that enable a hassle-free experience, enabling swift mission deployment.
- **Durable and dependable:** Thuraya IP Voyager has been purpose-built for use in vehicles. The vehicular satellite unit has a rigid chassis with internal components that can withstand the potential of a high vibration environment. The antenna holds an IP56 Ingress Protection Rating – a globally recognized standard from the International Electrotechnical Commission – which provides protection from dirt, dust, water, oil and other non-corrosive materials to withstand the harshest environments.
- **High-speed streaming capabilities:** Boasting speeds of up to 444kbps while

- on the move, Thuraya IP Voyager is the only terminal in the market capable of achieving streaming IP speeds of up to 384kbps.
- Asymmetric streaming: Thuraya is the first mobile satellite services operator to provide asymmetric streaming capabilities for our broadband devices. Thuraya IP Voyager can be configured to allow users to manage their upload and download speeds to match their usage and ensure significant savings.
- Unlimited data usage: With the IP Unlimited data plan, users can conduct all field operations, including video conferences, file transfers and other high-bandwidth applications at a fixed monthly rate, with no additional costs.
- Congestion-free network: Our satellite network's dynamic resource allocation minimizes any signal congestion in areas where there are high volumes of communication traffic, ensuring that you stay connected when it matters

#### **BDU (BELOW DECK UNIT)**

- Weight: 2.3 kg
- Dimensions: 281 x 233 x 46 mm
- Main power input: 10-32 Volt DC, 70W max (7A max)
- Mechanical vibration: 200-2000 Hz. 0.3 m<sup>2</sup>/s<sup>3</sup> MIL-Spec 810B

#### **ANTENNA**

- Weight: 2.0 kg
- Dimensions: 252 mm x 119 mm
- IP rating: IP56

#### **INCLUDED IN THE PACK**

- Thuraya IP Voyager BDU
- Tracking antenna, 6 meter RF cable, power cable, magnetic mounts
- User Guide and Installation Guide
- Note: The cable length can be changed, but the maximum loss must be less than <10 dB at 1.6 GHz

# **EXPLORER 325**

**BY COBHAM** 



#### GLOBAL CONNECTIVITY ANYWHERE, PARKED OR ON-THE-MOVE

The Explorer 325 is a great compact solution for on-the-move communications that consists of three fully integrated units – a transceiver, an IP handset, and a magnetic roof mountable antenna. The solution is especially designed for robust and durable use, and quickly turns your vehicle into a mobile communications hub. The Explorer 325 keeps you connected at no extra cost (fixed pricing and no roaming fees) regardless of the number of international borders you cross.

#### **FEATURES**

- Auto tracking antenna
- No roaming fees
- Telephone Functionality: phone book, traffic logging, message indication, restricted dialling
- Set-up and Router Functionality: webserver, NAT router, DHCP, remote management, SIP server, PPPoE, PoE

#### **CHARACTERISTICS**

- Dimensions
- Transceiver: 278 x 231 x 41 mm
- Antenna: 349 x 128 mm
- Weight
- Antenna: 3.6 kg
- Transceiver: 2.2kg
- Voice: 4 kbps
- Premium Voice: 64 kbps (elevation>45°)
- Standard IP: Up to 464 kbps

- Streaming IP: 32, 64, 128 kbps
- SMS: 160 characters
- User Interface
- Power On/Off Button
- Status LED
- Thrane & Thrane Web Interface
- Factory Default Reset
- 2 x Ethernet LAN RJ-45 ports
- 1 x RJ-11 analog phone port
- 5 pin general purpose I/O connector
- Antenna connector
- DC power connector with remote on/off and locking mechanism
- BGAN SIM card slot
- Ingress Protection
- IP 30 (transceiver)
- IP 56 (antenna)
- Languages: UK, FR, DE, ES, RU and CN
- Temperature

- Operational: -25 to +55°C
- Survival: -40 to +80°C
- Storage: -40 to +85°C
- Relative Humidity: 95% non-condensing at +40°C
- DC input range: 10.5-32VDC
- Power (max) @10.5-32V: 150W

#### **INCLUDED IN THE PACK**

- Explorer 325 transceiver
- Explorer 325 tracking antenna with magnetic mount
- Thrane IP handset with cradle and coiled
- Antenna cable, coax with TNC plug (2.7m)
- Ethernet Cable (2m)
- Ouick Start Guide CD with manuals
- □ 12/24V DC input cable (3m)

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#### MULTI-USER DEVICE WITH EXTENSIVE PERFORMANCE

Composed of three units (a transceiver, a IP handset, and a roof mountable antenna), the Explorer 727 is a highend BGAN solution for vehicles. Ideal for multiple users on-the-move, it automatically tracks satellite positions and offers high-speed connectivity even at speeds in excess of 200 km/h. With the highest streaming rates available with the BGAN X-Stream when the terminal is on-the-pause, the Explorer 727 facilitates live streaming and store-andforward transmissions from hot spots across the world.

#### **FEATURES**

- Comprehensive vehicular communications hub
- High-speed broadband on-the-move
- Live streaming or store-and-forward transmissions
- Telephone Functionality: phone book, traffic logging, message indication, restricted dialling
- Set-up and Router Functionality: webserver, NAT router, DHCP, remote management, SIP server, PPPoE, PoE

#### **CHARACTERISTICS**

- Dimensions
- Transceiver: 273 x 231 x 42.5 mm
- Antenna: 477 x 152 mm
- Weight
- · Antenna: 6 kg
- Transceiver: 2.5 kg
- Voice: 4 kbps
- Premium Voice: 64 kbps (elevation>20° on-the-move, elevation>5° on-the-

- Standard IP: Up to 492 kbps
- Streaming IP: 32, 64, 128,256 kbps
- BGAN X-Stream: From 384 kbps on-thepause
- SMS: 160 characters
- User Interface
- Power On/Off Button
- Status LED
- Thrane & Thrane Web Interface

- 2 x RJ-11 analog phone port
- 1 x ISDN
- 5 pin general purpose I/O connector
- Power over Ethernet (PoE)
- Antenna connector
- DC power connector with remote on/off and locking mechanism
- BGAN SIM card slot
- Ingress Protection

- Factory Default Reset

- IP 30 (transceiver)

- IP 56 (antenna)
- Languages: UK, FR, DE, ES, RU and CN
  - Temperature
  - Operational: -25 to +55°C
  - Survival: -40 to +80°C
  - Storage: -40 to +85°C
  - Relative Humidity: 95% non-condensing
  - DC input range: 10.5-32VDC
  - Power (max) @10.5-32V: 150W

#### INCLUDED IN THE PACK

- Explorer 727 transceiver
- Explorer 727 tracking antenna
- Thrane IP handset with cradle and coiled
- Antenna cable, coax with TNC plug
- Ethernet Cable (5m)
- Antenna Mounting Kit (fixed / rail)
- Ouick Start Guide CD with manuals
- 24V DC input cable (6m)

#### **ULTRA-COMPACT COMMS-ON-THE-MOVE BGAN TERMINAL**

The Explorer 323 is an ultra compact BGAN terminal for voice and data communication on-the-move - a perfect match for PRISM PTT+. Simply place the terminal on the roof with optional magnetic mounts, and connect your phone to the Explorer app or log onto the wireless network with your PC to turn your vehicle into a mobile communications hub. As an ultra-portable vehicular terminal, the Explorer 323 is the first terminal with an Inmarsat Class 12 type approval, enabling it to be used for both M2M and traditional BGAN, offering mobile broadband connectivity wherever you go at fixed pricing and no roaming fees. With the Explorer 323, you always know your cost of communication regardless of the number of borders you cross.

#### **FEATURES**

- Combined transceiver and switched beam antenna
- Integrated WiFi
- No roaming fees
- No moving parts
- First terminal with Inmarsat Class 12 type approval

#### **CHARACTERISTICS**

- Dimensions 97 x 321mm
- Weight 3.6 kg
- Voice: 4 kbps AMBE+2
- Premium Voice: 64 kbps (elevation>45°)
- Guaranteed service: Elevation >20°
- Streaming IP: 16, 32 kbps

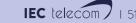
Standard IP: Up to 200 kbps

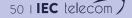
- SMS: 160 characters
- User Interface
- Status LED
- Web Interface • Factory Default Reset
- 1 x WLAN interface
- 1 x LAN interface
- Combined DC power and Ethernet connector
- Hybrid cable, wires
- 2 x Power
- 1 x Ignition
- 4 x Ethernet
- 1 x Shield
- BGAN SIM card slot
- Ingress Protection : IP66
- Languages: UK, FR, DE, ES, RU, CN and PT

- Temperature
- Operational: -25 to +55°C
- Survival: -40 to +80°C
- Storage: -40 to +85°C
- Relative Humidity: 95% non-condensing at +40°C
- DC input range: 10.5-32VDC
- Power (max) @10.5-32V: 35W

#### **INCLUDED IN THE PACK**

- Explorer 323 terminal (combined transceiver and switched beam antenna)
- Combined DC Power and Ethernet Cable (6m, open-ended)
- Installation Guide CD with manuals
- Drilling template for mounting







## BEAM ISATDOCK 2 LITE

**DOCKING STATION FOR INMARSAT'S ISATPHONE 2** 

Beam IsatDock2 LITE enables the IsatPhone 2 handset to be always active and ready to receive incoming calls, which can be answered via a bluetooth accessory or the optional privacy handset. It allows easy access to standard voice and data services for both land and maritime applications as well as the handset's antenna and power to be permanently connected to the dock. Besides charging the handset, the IsatDock2 LITE comes with a USB data port, in-built ringer, and fully supports the functionality of the Assistance Button, Personal Alert, and Tracking.

## **BEAM**POTSDOCK IRIDIUM

HANDSFREE DOCKING STATION AVAILABLE FOR IRIDIUM 9575 AND 9555

Beam PotsDOCK Iridium is a compact docking station specifically designed for the Iridium handsets and to support RJ11/POTS, bluetooth, and tracking features for fixed and mobile applications. The docking station has in-built echo cancelling and full duplex technologies to provide superior voice quality and professional handsfree or private calls. Besides the RJ11/POTS interface, the PotsDOCK Iridium alternatively interfaces with PABX system to represent a standard phone network.

#### **FEATURES**

- Slim line design with high-quality ABS plastic
- Single button release
- Tracking and SOS functionality
- Enhanced docking mechanism
- Adjustable in-built ringer

#### **CHARACTERISTICS**

- Dimensions
- Dock: 229 x 99 x 76 mm
- Outer Box: 290 x 170 x 190 mm

- Weight
- Dock: 0.5 kg
- Box: 1.3 kg
- Inmarsat antenna
- GPS antenna
- RJ-9 connector
- Privacy handset option
- Bluetooth via handset
- Accessory/Ignition sense
- 4-way microFIT AC/DC adapter 10-32 VDC
- USB Micro
- Status LED

- 2 year repair or replacement warranty
- Operating Temperature: -35 to +85°C
- Storage Temperature: -20 to +70°C
- Power Consumption w/o handset: 1.6W

#### **INCLUDED IN THE PACK**

- IsatDock2 LITE
- 2 x IsatDock2 adaptors
- Universal Mounting Bracket (RAM)
- Quick Start Guide with User Manual

#### **FEATURES**

- High-quality handsfree calls
- In-built echo cancelling
- Short-burst and circuit-switch data
- PABX integration
- Tracking & alert monitoring capable

#### **CHARACTERISTICS**

- Dimensions: 212 x 83 x 76 mm
- Weight: 0.45 kg

- RJ11/POTS connectivity
- Iridium antenna 3.3 VDC
- External GPS antenna
- Bluetooth
- Mini-B 5 pin USB 2.0 data port
- AC connector 12V
- Operating Temperature: -30 to +70°C
- Storage Temperature: -35 to +85°C
- Relative Humidity: 85% RH noncondensing
- Power Consumption: 12 VDC

#### **INCLUDED IN THE PACK**

- PotsDOCK Cradle for Iridium 9575
   Extreme or Iridium 9555
- Universal Mounting Bracket (RAM)
- AC power adaptor
- DC power cable / fuse kit
- Quick Start Guide with User Manual

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#### **DOCK FOR IRIDIUM EXTREME PTT SERVICE**

Beam's DriveDOCK Extreme Corded Push-To-Talk Bundle is a cost effective PTT solution that supports all features of the Iridium Extreme PTT service. It also supports handsfree speakerphone attached to the dock, making it ideal for fixed vehicle installations. The DriveDOCK Extreme Corded PTT provides clear and improved PTT audio quality via the loudspeaker in the corded handset.

The FDU-XT is a home and office docking adaptor that allows you to use the Thuraya XT, XT Pro and XT Dual phones in an indoor setting. Simply connect the FDU-XT to the antennas; then, dock the Thuraya handset into the cradle, and start to enjoy satellite phone connectivity. Easy to install and operate, it supports Voice, Data, and Fax transmissions, and comes with SAT and GPS antennas and 25m cables to ensure seamless connectivity.

#### **FEATURES**

- High-quality handsfree calls
- Rugged mic/speaker handset
- Alarm loop
- Improved audio quality
- Supports Iridium phone and PTT mode

#### **CHARACTERISTICS**

- Dimensions
- Dock: 212 x 83 x 76 mm
- Outer Box: 140 x 330 x 125 mm

- Weight
- Dock: 0.48 kg
- Box: 1.54 kg
- 4-pole 3.5mm audio jack
- Mini-B 5 pin USB 2.0
- Operating Temperature: -30 to +70°C
- Relative Humidity: < 85% RH noncondensing
- Power Consumption: 9-32 VDC

#### **INCLUDED IN THE PACK**

- DriveDOCK Extreme
- C1 corded PTT microphone/speaker
- Speaker & Microphone
- Universal Mounting Bracket (RAM)
- Universal Mounting Bracket for C1 microphone/speaker
- DC power cable / fuse kit
- User Manual

#### **FEATURES**

- Easy to install and operate
- Compatible with Thuraya XT Satellite Phones
- Supports high-quality voice transmission via auxiliary handset, speakerphone or any analogue extension telephone
- Charges a Thuraya XT satellite phone while docked in the cradle
- Supports GMPRS services with USB port or DTE
- Supports circuit switched data service at speeds up to 9.6 kbps
- Supports PABX connection
- Dimensions: 221 x 176 mm

#### **INTERFACES**

- ⊚ 3 RJ-11:
- External telephone connection (voice call)
- External G3 fax connection (fax call)
- Auxilliary handset connection (voice call)
- □ 1 x RS-232 serial connection
- 1 x USB PC connection
- 2 x SMA connectors:
- GPS antenna connection

· Satellite antenna connection

#### **POWER**

- Universal AC/DC power supply 110-240V
- Input power DC 12V/24V/34V

#### **INCLUDED IN THE PACK**

- FDU-XT main unit
- Auxilliary handset
- SAT antenna with 25 m cable
- Universal power supply
- Wall mounting bracket
- USB cable
- RJ-11 cable
- Support CD
- User manual

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With a portable and straightforward set-up, the CONNECT100T is especially designed to provide optimum performance on the GX network and works well on all major satellite networks. Supplied in three transit cases for easy transportation, this quick deploy Ka-Band terminal assembles easily and is simple to point using the Outdoor PIM. It is ideal for first responders, emergency services, and NGOs for short term use in demanding environments and provides good value for money through a combination of hardware and airtime pricing.

Paradigm Hornet 65AA is designed to be lightweight, portable, and simple to use. This antenna is ideal for situations where a rugged solution is needed without compromising simplicity and throughput. The Hornet 65AA combines a fully integrated modem and simple pointing with PIM technology. The terminal is designed to provide the best possible performance on the Global Xpress network and enabled to provide access to the most advanced IP satellite services.

#### **FEATURES**

- Quick deploy, portable Ka-band terminal
- Integrated ODU modem
- Assisted Manual Point (PIM) and Outdoor PIM
- Supports all major satellite networks
- PC web-based interface

#### **CHARACTERISTICS**

- Dimensions & Mechanics
- Reflector: 98 cm, single piece
- Elevation Capture Range: 5° to 90°
- Weight
- Terminal: 32 kg
- Case 1: 28 kg
- Case 2: 29.5 kg

- Case 3: 30 kg
- Integrated external interface
- 3 x 100Base-T Ethernet
- Data: Upto 5Mbps (uplink); 50Mbps (downlink)
- Operating Temperature: -50 to +80°C
- Relative Humidity: 95% RH (condensing)
- AC Power: 90-264V

#### INCLUDED IN THE PACK

- 98 cm antenna with feed
- 5W transceiver
- Tripod
- Mount
- User Manual

#### **OPTIONAL ACCESSORIES**

- Outdoor PIM with optional POE and/or DC Power Output
- Customised and Compatible Fibre and Wireless Solutions available on request
- Custom Cable Lengths and Types available on request
- Cooling and De-Icing Systems available
- Installation Tool Kit
- Paradigm Tri-Mount Options
- Stabilising Weight
- Sand Pads
- Anchor Kit

#### **FEATURES**

- Four-piece segmented carbon fibre
  reflector
- Signal lock in under 5 minutes
- Sealed compact unit requiring no cooling fans
- Outdoor PIM pre-tuned to Inmarsat Global Signalling Channel
- Supports all major satellite networks

#### **CHARACTERISTICS**

- Dimensions & Mechanics
- Reflector: 65 cm, four piece
- EIRP: 50.5 dBW @ 30.0 GHz
- G/T: 17 dB/K @ 20.2 GHz
- Elevation Capture Range: 10° to 90°
- Weight: 30 kg
- Operating Temperature: -25 to +55°C
- Storage Temperature: -40 to +85°C
- Relative Humidity: 95% RH
- Power Consumption: <100W AC; <90W DC</p>

#### **INCLUDED IN THE PACK**

- 65 cm antenna with feed
- Integrated motorized El/Az antenna
- Mount
- 5W transceiver
- Sealed RF chain
- Outdoor PIM
- User Manual

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## **EXPLORER 6075LX**

**AUTO-ACQUIRE FLY-AWAY ANTENNA SYSTEM** 

With a state-of-the-art auto-acquire system, the Explorer 6075LX ensures connectivity to LX services with the push of a button, providing quick access and broadband connectivity even in remote locations. It is the first ever Fly-Away to feature Cobham's unique Dynamic Pointing Correction technology that guarantees uninterrupted connectivity. In the field, the Dynamic Pointing Correction ensures that the antenna stays locked on to the satellite even in strong winds or if moved.

#### **FEATURES**

- Dynamic Pointing Correction technology
- Push-button connectivity
- Fully integrated iDirect GX Core Module
- Replaceable Ka-band feed horn
- Airline checkable, 2 case solution

#### **CHARACTERISTICS**

- Dimensions & Mechanics
- Reflector: 65 cm, four piece
- EIRP: 52 dBW @ 30.0 GHz

- G/T: 18.7 dB/K @ 20.2 GHz
- Elevation Capture Range: 10° to 88°
- Weight
- Terminal: 23 kg
- Base Unit Case: 22.5 kg
- Reflector + Feed Case: 19 kg
- LAN Interface
- WLAN Access Point
- Embedded web server
- Data: Up to 4Mbps (uplink); 8Mbps (downlink)
- Operating Temperature: -25 to +55°C

- Storage Temperature: -40 to +85°C
- Relative Humidity: 100% RH
- DC Power: 24-48 VDC

#### INCLUDED IN THE PACK

- Reflector with feed
- Mount
- Peli 1637 Air Case (airline checkable)
- User Manual

## **EXPLORER 8100GX**

STABILIZED AUTO-ACQUIRE DRIVE-AWAY **ANTENNA SYSTEM** 

With a Dynamic Pointing Correction system and an advanced carbon fiber reflector, the Explorer 8100 GX ensures continuous connectivity over the Global Xpress network. It is the most advanced auto-acquire drive-away land VSAT antenna available in its class, and includes an integrated iDirect Core Module and embedded web server for control, management, and configuration. Its user-friendly design allows quick access to GX land services, and its functionalities include precision polarization, inclined orbit satellite tracking, harmonic drive gear systems, advanced blocking zone, and more. In addition, the Explorer 8100 GX easily switches between Ka-SAT, Ku-band, and Inmarsat GX with an optional conversion kit.

#### **FEATURES**

- Dynamic Pointing Correction technology
- Advanced single piece carbon fibre
- Web-based user interface for PC and smartphone configuration
- LCD display with keypad
- Easy switch feed system between Ka-SAT, Ku-band, and Inmarsat GX (optional)

#### **CHARACTERISTICS**

Dimensions & Mechanics

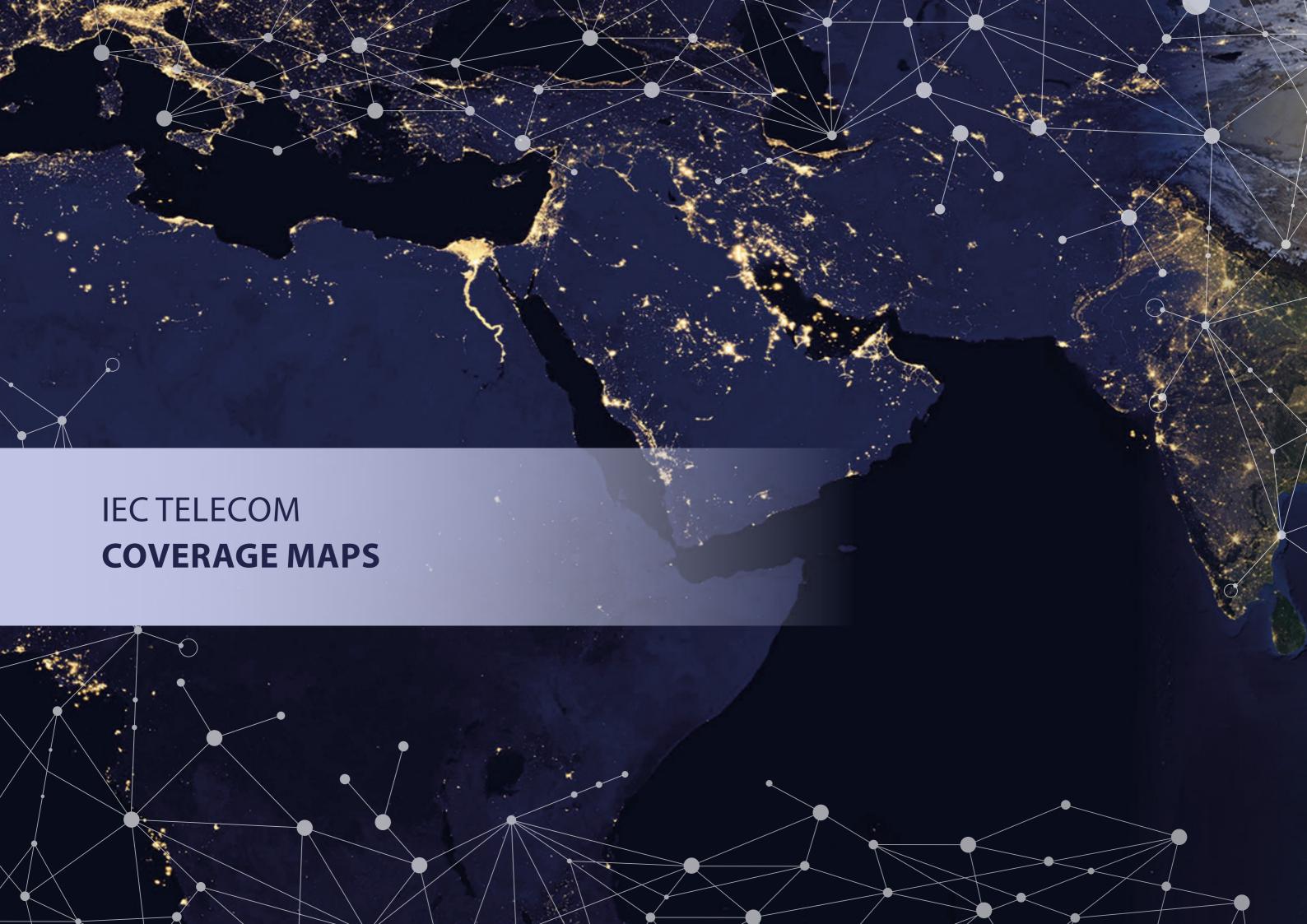
- Reflector: 1m, single piece
- EIRP: 50 54 dBW
- G/T: 19.4 22.0 dB/K
- Elevation Capture Range: 0° to 100°
- Weight
- Terminal: 56.5 kg (eTRIA); 60 kg (Ka 5W); 63 kg (BUC/LNB 8W)
- iDirect GX Core Module: 3.5 kg
- · Antenna Control Unit: 4.5 kg
- Commercial 5W BUC Ka-band feed chain
- LAN Interface
- WLAN Access Point

- Data: Upto 4Mbps (uplink); 8Mbps (downlink)
- Operating Temperature: -25 to +55°C
- Survival Temperature: -40 to +80°C
- Relative Humidity: 100% RH (condensing)
- AC Power: 90-264 VAC

#### **INCLUDED IN THE PACK**

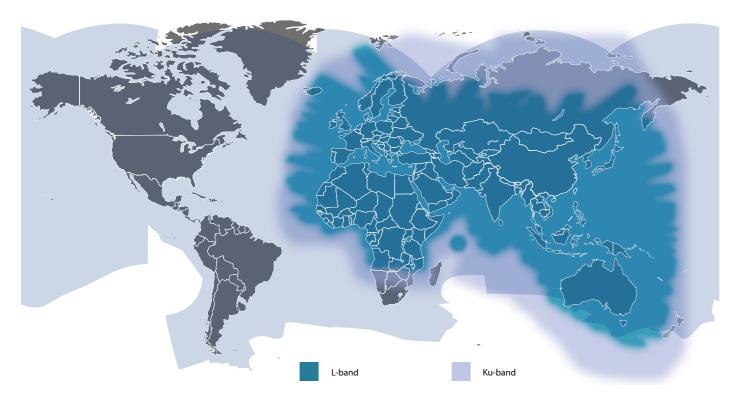
- Single piece 1m carbon fibre reflector
- Mount
- User Manual

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### **THURAYA**



#### **ABOUT THURAYA**

Thuraya is the UAE's first home grown mobile satellite operator. Its merger with Yahsat has expanded its portfolio across commercial and government sectors, and led to the launch of Thuraya X5-Touch, the world's first Android-based satellite and GSM phone with a full HD screen. Thuraya's satellites serve 160+ countries, provide communication solutions for energy, maritime, aerospace, humanitarian, and broadcast media, and its network offers uninterrupted coverage by MSS, quasi-global VSAT, and GSM.

#### **IEC TELECOM & THURAYA**

IEC Telecom and Thuraya began a partnership in 2001 and became Sales Partners. They have worked together in the Maritime and Humanitarian markets in Europe, Asia, and Africa, and developed solutions like VSAT+, Orion Edge, and Orion Edge+.

As one of Thuraya's strategic partners, IEC Telecom's high performance has reflected in awards such as the Thuraya Certified Gold Partner 2012 - Land Data, Best Performance Maritime 2014, Best Performance Maritime 2018, and more.

### **IRIDIUM**



#### **ABOUT IRIDIUM**

Iridium Communications, Inc. operates the world's largest commercial mesh architecture of 66 cross-linked Low-Earth Orbit (LEO) satellites and provides truly global voice and data communication solutions, including airways, polar regions, and oceans. Iridium is a publically traded company headquartered in USA, works with over 400 value-added partners, and provides a dedicated communications gateway for the US Department of Defense. Renowned for the Certus, an advanced multi-service platform, and the Short Burst Data (SBD) transceiver, Iridium has extended the reach of terrestrial and cellular infrastructure to every corner of the Earth via both handsets and installed communications systems.

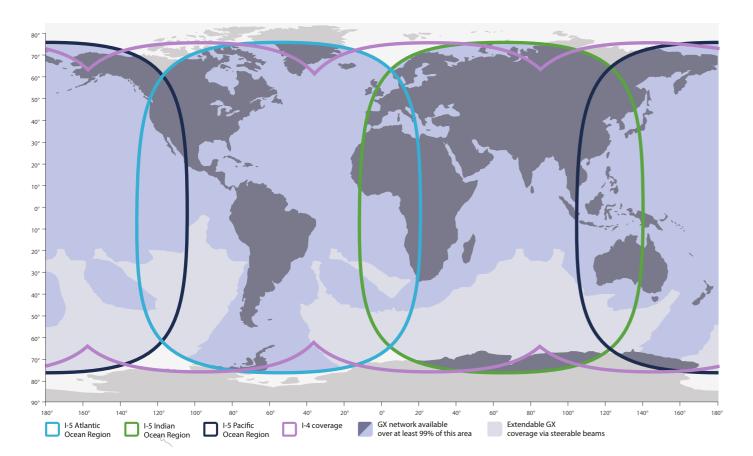
#### **IEC TELECOM & IRIDIUM**

IEC Telecom and Iridium formed a strategic alliance in 2013. IEC Telecom became an Iridium Master Distributor and has since worked closely with Iridium to offer commercial satellite communications solutions.

In 2019, IEC Telecom also signed a partnership with Iridium to deliver Iridium Certus , a next-generation satellite broadband solution for land and maritime applications. For the maritime sector this means access to reliable, high-quality satellite connectivity, anywhere on the planet, regardless of the size of the vessel or its data needs. The humanitarian sector and land-based customers will benefit from an enhanced user experience, thanks to the system's greater mobility and very low levels of latency – giving them real-time communications with less room for error.



### **INMARSAT**



#### **ABOUT INMARSAT**

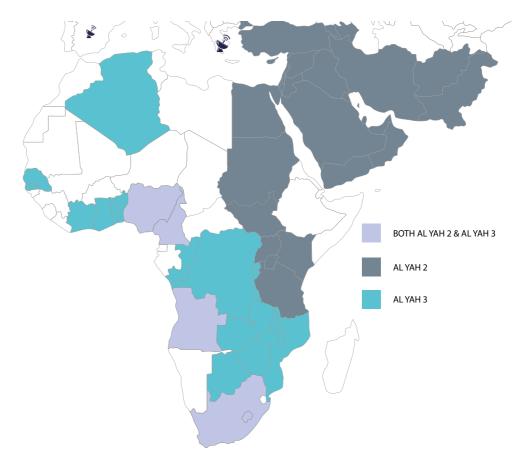
Inmarsat is a leading provider of global mobile satellite communications and offers a broad portfolio of connectivity services and value-added solutions. Set up in 1979, Inmarsat owns and operates 13 satellites that deliver L-band broadband, high-speed Ka-band, and WiFi S-band services. Today, Inmarsat's fifth generation Ka-band satellites power Global Xpress, which is the world's first and only globally available mobile broadband service that is delivered through a single wholly-owned network to ensure seamless connectivity. The sixth generation fleet is planned to be the first to feature dual-payload satellites, each supporting L-band and Ka-band services as well as capabilities ranging from advanced global safety services to the Internet of Things (IoT).

#### **IEC TELECOM & INMARSAT**

IEC Telecom and Inmarsat formed a strategic alliance in 1999. Further strengthening their 15-year long relationship, IEC Telecom became an Inmarsat Global Xpress Value-Added Reseller in 2014 as well as a Tier 2 (Gold) Partner for HTS services in the energy, media, and NGO sectors. This also served to expand IEC Telecom's VSAT capabilities.

In 2016, IEC Telecom became an Inmarsat Fleet Xpress Value-Added Reseller to deliver revolutionary fully integrated solutions over both Global Xpress Ka-band and FleetBroadband L-band.

### **YAHCLICK: KA-BAND**



#### **ABOUT YAHCLICK**

YahClick is a satellite broadband service offering reliable, cost-effective, and high-performance internet connectivity to unserved and underserved regions across the Middle East. Delivered through the latest generation of High Throughput Satellites (HTS), the service uses the efficiencies provided by the reusable Ka-band satellite frequency and is powered by multi-spot beam technology to make satellite broadband affordable and dependable in areas where there is limited to no terrestrial infrastructure.

YahClick is a Joint Venture between Yahsat, a leading global satellite operator based in the United Arab Emirates (UAE) and owned by Mubadala Investment Company, and Hughes Network Systems (HUGHES), a subsidiary of EchoStar Corporation (NASDAQ: SATS)

#### **IEC TELECOM & YAHSAT**

IEC Telecom and Yahsat began their long-term partnership in 2009, and in 2012, IEC Telecom became an International Service Provider for Yahsat in the Middle East and African regions.

IEC Telecom was recognized as the YahClick Service Partner of the Year in 2014 and was also honoured with the YahClick Innovation Excellence Award in 2018.

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## SATELLITE HOTSPOTS

## **SATELLITE HANDSETS**





	IRIDIUM GO!	THURAYA SATSLEEVE HOTSPOT	
NETWORK/ COVERAGE	iridium Everywhere	THURAYA	
SIZE	114 x 83 x32 mm	142 x 69 x 38 mm	
WEIGHT	305 g	290 g	
ANTENNA	Integrated	Integrated	
BATTERY DURATION	5.5 hours in talk time - 15 hours in stand by	3 hours in talk time - 70 hours in stand by	
INGRESS PROTECTION RATE	IP65	Not rated	
MOBILITY	**	***	
TRACKING/ LOCATION-BASED SERVICES	<b>✓</b>	×	
SOS BUTTON	<b>✓</b>	<b>✓</b>	
SMS	<b>✓</b>	<b>✓</b>	
DATA SPEED	Up to 9.6 kbps	Download up to 60 kbps Upload up to 15 kbps (GmPRS)	
VOICE CAPABILITIES	Yes from Iridium GO! iOS or Android app	Yes from Thuraya SatSleeve iOS or Android app (via bluetooth)	
WIFI CAPABILITIES	Yes - Up to 30 m radius area	Yes - Up to 30 m radius area	
MULTI- USER ENVIRONMENT	Data: Up to 5 simultaneous- taneous connections Voice: 1 user	Only 1 user	
CONTRACT TYPE	Prepaid & Postpaid	Prepaid & Postpaid	













	IRIDIUM 9575-EXTREME	IRIDIUM 9555	INMARSAT ISATPHONE 2	THURAYA X5-Touch	THURAYA XT-PRO	THURAYA XT-LITE
NETWORK/ COVERAGE	iridium	iridium Everywhere	inmarsat	THURAYA	THURAYA	THURAYA
SIZE	140 x 60 x 27 mm	143 x 55 x 30 mm	169 x 75 x 29 mm	145 x 78 x 24 mm	128 x 53 x 27 mm	128 x 53 x 26.5 mm
WEIGHT	247 g	266 g	316 g	262 g	212 g	186 g
BATTERY LIFE - TALK TIME	Up to 4 hours	Up to 3 hours	Up to 8 hours	Up to 11 hours	Up to 9 hours	Up to 6 hours
BATTERY LIFE - STAND BY	Up to 30 hours	Up to 30 hours	Up to 160 hours	Up to 10	00 hours	Up to 80 hours
DISPLAY	Glare resistant LCD display	Glare resistant LCD display	Glare resistant LCD display	Gorilla glass LCD display	Glare resistant colour display	Standard colour display
ANTENNA DESIGN	Retractable Omni- directional antenna	Rectractable Omni- directional antenna	Fold-out directional antenna	Omni-directional antenna	Rectractable Omni- directional antenna	Rectractable Omni- directional antenna
INGRESS PROTECTION	IP65	IP55	IP65	IP67	IP55	IP54
INCOMING CALLS	Incoming call alert if antenna stowed or deployed					
SMS	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
DATA	Up to 9.6 kbps	Up to 9.6 kbps	2.4 kbps		to 60 kbps/15 kbps a: 9.6 kbps	×
LOCATION-BASED SERVICES	Share location via SMS, SBD Programmable SOS button	×	Tracking button Programmable tracking assistance button Share location via SMS	GPS systems: GPS, BeiDou, Send GPS or Glonass Thuraya SOS Button position function		
BLUETOOTH	×	×	<b>~</b>	<b>~</b>	×	×
LANGUAGES SUPPORTED	21	21	8	16	13	13
DOCKING UNITS AVAILABLE			Fixed Vehicular Maritime	×	Fixed	No
CONTRACT TYPE	Prepaid & Postpaid					
CHECK YOUR BALANCE	Send empty SMS to 2888	Send empty SMS to 2888	Dial *106#		Dial 150	











	BGAN EXPLORER 510	BGAN EXPLORER 710	IP+	WE
NETWORK/ COVERAGE	inmarsat	inmarsat	THURAYA	THURAYA
MANUFAC- TURER	Cobham	Cobham	Hughes	BEAM
DIAMETER ANTENNA	×	×	×	×
SIZE BDU	202x202x51.8 mm	332x279x54 mm	216x216x45 mm	230x197x24 mm
WEIGHT ANTENNA	×	×	×	×
WEIGHT BDU	1.4 kg	3.2 kg	1.4 kg	1.1 kg
STANDARD IP	Up to 464 kbps	Up to 492 kbps	Up to 444 kbps	Up to 384 kbps
STREAMING IP	Up to 128 kbps	Up to 384 kbps	Up to 384 kbps	N/A
WI-FI	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
VOICE	<b>~</b>	<b>~</b>	×	×
SMS	<b>~</b>	<b>~</b>	×	×
DATA INTERFACE	1 Ethemet port	2 Ethemet ports	1Ethemet port	N/A
INGRESS PROTECTION	IP66	Transceiver IP52 Antenna IP 66	IP55	IP54



# WORLDWIDE LOGISTICS FROM IEC TELECOM

Benefit from a global logistics and delivery network even in the most remote areas or when faced with last-minute crises. Access products quickly and efficiently enabled by IEC Telecom's strong relationships with major delivery operators.



## **VEHICULAR MODEMS**



















IBGAN 325	BGAN 727	9211 HDR	9202M
inmarsat	inmarsat	inmarsat	inmarsat
Cobham	Cobham	Hughes	Hughes
349x128 mm	477x152 mm	216x216x41 mm	232x292x51 mm
278x231x41 mm	273×231×42.5 mm	1149.5x121.5x9.3 mm	×
3.6 kg	6 kg	1.4 kg	2 kg
2.2 kg	2.5 kg	×	×
Up to 464 kbps	Up to 492 kbps	Up to 492 kbps	Up to 464 kbps
Up to 128 kbps	Up to 256 kbps	Up to 256 kbps	Up to 128 kbps
<b>~</b>	<b>✓</b>	<b>~</b>	<b>✓</b>
<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
2 Ethemet ports	4 Ethernet ports	1Ethemet port	1Ethemet port
Transceiver IP30 Antenna IP 56	Transceiver IP30 Antenna IP 56	IP55	IP65



