



# v85NX

## Future-proof VSAT antenna for smaller vessels



As a future-proof Ku- to Ka-band convertible maritime VSAT antenna, v85NX fully supports dual antenna operations with an embedded mediator radome. It can be mounted on smaller vessels and gives them access to 1m designed networks. v85NX is designed to track non-geostationary (NGSO) satellites. It is ideal for commercial ships, the oil and gas industry, and mission-critical operations. Standardised modular components reduce the number of spare parts by more than 30%. IEC Telecom offers Intellian's NX series antennas to enable connectivity over multiple satcom services and optimise the entire VSAT lifecycle with a low cost of ownership.

### FEATURES



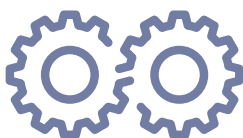
Future-proof system



Converts from Ku- to Ka-band



AptusNX antenna management platform



Embedded dual antenna mediator



Standardised modularised components



Simple installation

## SPECIFICATIONS

### ABOVE DECK UNIT (ADU)

#### WEIGHT:

96 kg

#### DIMENSIONS:

Radome: 123 cm (height); 113 cm (diameter)

Reflector: 85 cm (diameter)

#### ELEVATION RANGE:

-20° to 115°

#### TX FREQUENCY:

13.75 ~ 14.5 GHz Ku-Band

#### TX GAIN:

40.7 dBi @ 14.25 GHz (excl. radome)

#### RX FREQUENCY:

10.7 ~ 12.75 GHz Ku-Band

#### RX GAIN:

38.9 dBi @ 11.7GHz (excl. radome)

#### G/T:

> 18.3 dB/K @ 12.75 GHz

#### BUC POWER:

8W, 16W, 25W

#### SINGLE 50 OHM COAX CABLE

for Rx, Tx, FSK, Reference and Power from ACU to ADU

#### ANTENNA CONTROL UNIT (ACU)

#### WEIGHT:

5.2 kg

#### DIMENSIONS:

43.1 x 35 x 4.4 cm

#### POWER:

100 ~ 240 V AC, 50~60Hz, 4A

#### MODEM INTERFACE:

Ethernet Port / RS-232C, -422C / I/O Console

#### MODEM PROTOCOL:

iDirect, Comtech, SatLink, Hughes, GILAT, Newtec

#### GYROCOMPASS INTERFACE:

NMEA2000 / NMEA0183

#### MANAGEMENT PORT

#### LAN PORT

#### REMOTE MANAGEMENT

#### WIFI

## USE CASES

### COMMERCIAL SHIPS

Deliver uninterrupted connectivity to commercial ships with Intellian's compact antenna that has been designed specifically for the maritime sector. Transfer accurate data and tracking information.

### MISSION-CRITICAL OPERATIONS

Quickly access reliable internet connectivity by simply plugging a laptop into the ACU without the need to download extra software. Benefit from standardised modular components for complete flexibility.

### OIL & GAS

Bring onboard a high-performance satellite communications link for vessels with limited available space. Support critical operations and handle large amounts of data.

