



NERA F33 Compact Quality Equipment Providing Communications

With the Nera F33, HiNet has tailored its advanced maritime communications system to suit smaller professional vessels as well as yachts and sail boats.

The Nera F33 scales advanced maritime communications to a compact system providing voice, fax and data services via Inmarsat satellite.

NERA F33 VOICE, FAX AND DATA

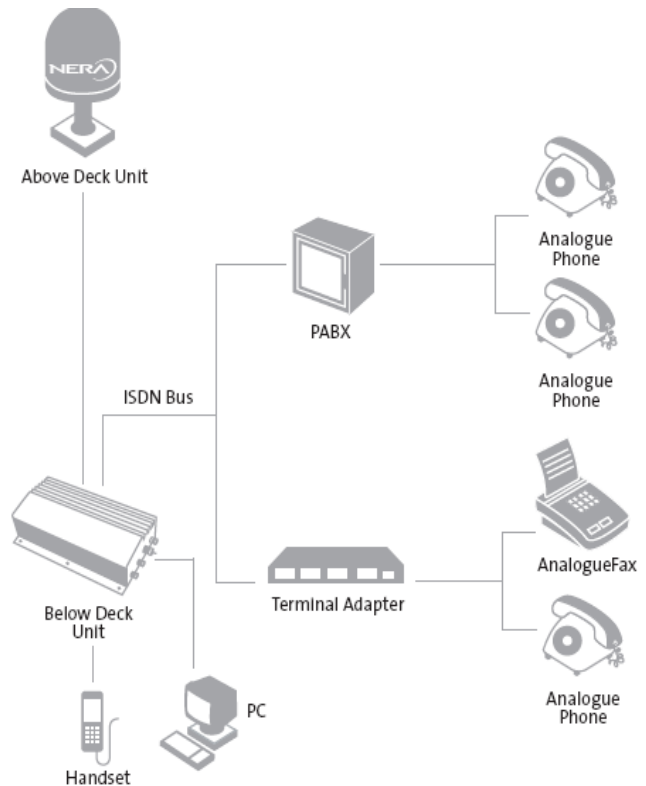
With extended coverage of the Inmarsat Fleet services, the Nera F33 delivers high-quality voice, fax and data communications in areas where mobile and radio networks do not reach. Further utilization of the Nera F33 can be achieved by implementing third party equipment for crew call.

ALWAYS-ON INTERNET AND ADVANCED DATA COMPRESSION

The unique MPDS service enables vessels to stay online continuously for convenient access to the Internet, e-mail and file transfer applications. The Nera F33 do also employ standard compression algorithms significantly boosting data throughput, enabling data connection to run up to seven times faster.

EASY INSTALLATION AND GLOBAL SUPPORT

Designed with user-friendliness in mind, the Nera F33 can easily be installed without the supervision of a specialist. Nera F33 customers will benefit from Nera's unique global network of regional service centers with Nera-trained and certified engineers. This service is provided 24 hours a day, 7 days a week in 38 key ports around the world.



TECHNICAL SPECIFICATIONS

Services

Voice	4.8 kbps
Data*	9.6 kbps dedicated channel (with compression equivalent to up to 40 kbps)
Data MPDS*	28.8/64 kbps MPDS (Packed data)
Fax*	9.6 kbps Group 3 fax

Telephone functionality

Number storage	10 latest numbers dialed
Address book	99 short numbers with alphanumeric names
Restricted dialing	Yes
Traffic logging	Yes
SIM card operation	Yes
Message indication	Yes
Access Code	Yes
Secure Communications	STU IIB / STU III (optional)

Interfaces

ISDN	2 x RJ-45 connectors
ISDN	1 set of Terminal block (4 wire)
Analogue	2 x RJ-11 connectors (external TA)
RS-422	1 set of Terminal block (4 wire)
USB	1 x connector
RS-232	2 x 9-pin D-SUB connector
NMEA	1 set of terminal block (2 wire)

*Spot beam services

Power

Power Supply	11-32 V DC
Power consumption	40 W receive/idle, 110 W transmit

BDU – ADU Cabling min/max loss	4/20 dB at 1.6 Khz and 4.0 ohm loop resistance Min 7 m / Max 25 m Min 12 m / Max 50 m Min 30 m / Max 140 m Min 45 m / Max 170 m
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RG-223
RG214 -FRNC
S10162B11
RG 1/2" 50

Physical Data

Weight	
Below Deck Unit	3 kg
Above Deck Unit	9 kg
Dimensions	
Below Deck Unit	18 x 31 x 8 cm
Above Deck Unit Height	40 cm, diameter 40 cm

Environmental

Storage temperature	-30°C to + 70°C
Operational temperature	
Below Deck Unit	0°C to + 45°C, 95% humidity (non condensing)
Above Deck Unit	at 40°C -25°C to + 55°C, 95% humidity (non condensing)
Sealing class	at 40°C
Below Deck Unit	IP30
Above Deck Unit	IP66



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