

Nera F33 The power of satellite communications via Inmarsat Fleet



Keeping you in touch
with your world

NERA

enabling a wireless future



Nera F33

provides you the freedom to choose when, where and how to stay in touch.



State-of-the-art marine communications providing a range of cost effective applications

Nera F33

This remarkable new Nera marine communications system is available now with worldwide availability. Whilst based on the highly successful Nera F77 system for large merchant vessels, the Nera F33 has been specifically tailored for motor and sailing yacht applications.

Easy installation

Nera F33 is notably easy to install. It does not even need a Nera regional service centre to do the job. Customers will find that they can easily do it themselves. The compact antenna unit will also fit into existing streamlined motor yacht domes.

Quick configuration

Below-deck equipment with the Nera F33 connects easily (plug and play) to telephone, PC and fax terminals. Configuration is fast and simple, using a PC man-to-machine interface.

Unrivalled support - around the clock, around the world

Nera's continuous involvement in marine communications since 1978 has created a powerful company ethos built on the massive importance of product reliability and dedicated service and support. Nera F33 customers will benefit from the company's unique global network of regional service centres with Nera-trained and certified engineers. This service is provided 24 hours a day, 7 days a week in 30 key ports around the world.

High quality mobile voice and data communications

Nera F33 introduces cost effective maritime communications. This state-of-the-art system provides you with telephone, fax, e-mail and Internet access - even when you are out of reach of conventional mobile phone or radio networks.

Will never have to choose between business and pleasure again

Now you can enjoy more time on board your yacht with friends and family, safe in the knowledge that you are in constant contact with business colleagues and decision-making information. It is like having your office at sea. With Nera F33 you truly can mix pleasure and business without compromise. Above all, you're free to make the most of the lifestyle you were looking for when you first chose your yacht.

The latest technology working for you

Designed specifically to meet the needs of smaller and medium-sized motor and sailing yachts, Nera delivers a cost-effective solution based on the state-of-the-art Inmarsat Fleet satellite platform. Thanks to its unique Mobile Packet Data Service (MPDS) capabilities, a whole new generation of advanced maritime communication services are now available.

Make informed decisions wherever your yacht takes you

Nera F33 facilities are 'always on' which means that users can have permanent access to the Internet and company intranets and extranets wherever you are on the oceans. You can check business and personal e-mail, browse the web, join online discussion forums and use SMS text messages.

Easy to use, easy to install

Voice and fax quality are both very high with Nera F33 on board - anywhere in the world you are likely to sail. Instant messaging is another advantage, as are other Internet-sourced communications. Connection to PCs and laptops is just as straightforward as it is in a land-based office. Crew also have instant access to chart and weather information. It is a highly flexible system.

Inexpensive to operate

Nera F33 is also a highly cost-effective communications package to operate. That is because you only pay for data actually transmitted and received - even though the system is permanently connected online. This also has the advantage of vastly reduced connection times speeding the process of downloading e-mails and other data files.

Data/Internet Applications



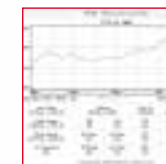
Worldwide web



E-mail



Data transfers



E-finance

• Access to corporate LAN

Quite simply you are always up to date with business information. Both you and your colleagues on land can be confident that you are always aware of events and constantly in touch.

• Access to the worldwide web

With internet and e-mail access it is easy keeping contact with family, friends and business colleagues. You can also use digital attachments just as you would on land. The latest sailing information is always on hand too - weather, navigational data and sea chart updates - as well as leisure information from potential ports of call.

• Access to office applications

As Nera F33 uses universal PC and laptop terminals, you can use all the usual applications which are at your command in a land-based office.

Fax Service



Group 3 fax (9.6 kbps)

• Access to Group 3 fax

Nera F33 provides you with the ability to send and receive faxes.

Global Telephone Service



Analogue global voice

• Access to global voice

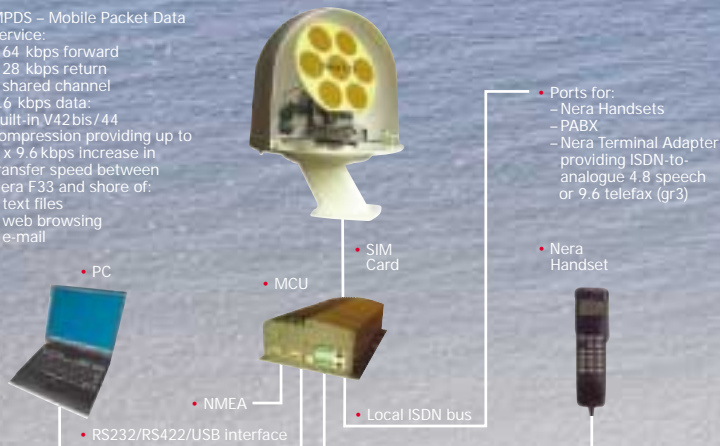
With Nera F33 installed you can call anywhere - and be called, wherever you are on the seas. With this genuinely global voice service you have the peace of mind of knowing you are always in touch. This provides you with security in the event of emergency situations.



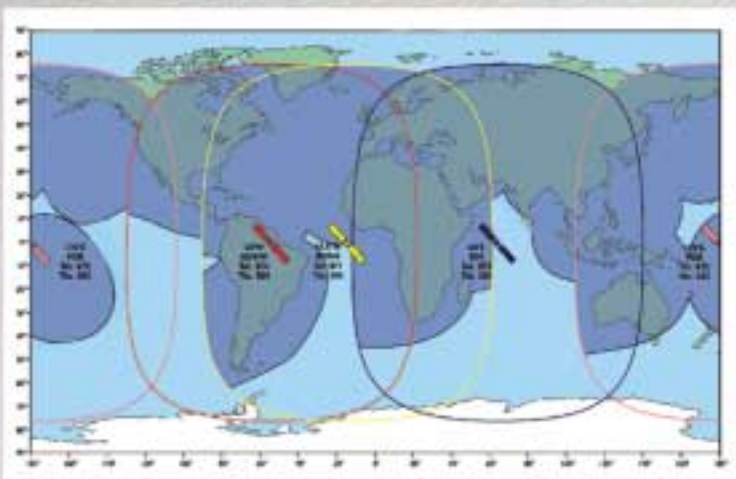
Nera F33 – cost effective communications for medium sized motor and sailing yachts.

System Diagram

- MPDS – Mobile Packet Data Service:
 - 64 kbps forward
 - 28 kbps return
 - shared channel
- 9.6 kbps data:
 - Built-in V42bis/44 compression providing up to 4 x 9.6 kbps increase in transfer speed between Nera F33 and shore of:
 - text files
 - web browsing
 - e-mail



Worldwide Coverage Map



KEY Limit of global beam coverage for Inmarsat A,B,C,D,E,M.

- Pacific Ocean Region
- Atlantic Ocean Region-West
- Atlantic Ocean Region-East
- Indian Ocean Region
- Inmarsat-phone coverage

50 years experience in satellite communications

Although the outstanding benefits of the Nera F33 system may be new to maritime customers, to Nera, satcoms technology has been a way of business life for more than half a century. This, combined with our heritage in marine communications, makes Nera the natural choice.



www.nera.no

Technical Specification

Services

Global service

Voice 4.8 speech (Mini-M voice)

Spot beam service

Voice 4.8 speech

Data 9.6 kbps data
Built in compression V42 Bis/V44, up to 40 kbps

Telefax 9.6 kbps fax G3
MPDS 64 kbps forward
28.8 kbps return
Shared channel

Functions

Supervision from handset
Configuration from PC
Traffic log on PC or printer
Message indicator
Access code
Call restrictions
Sim card operation
Phone book (up to 100 numbers)

Interfaces

Connectors

- 1 pc DC power connector
- 1 pc N-contact coaxial connector (RF)
- 2 pc RJ-45 ISDN connectors for Telephone/Fax/PC/PABX/Handset/DECT
- 1 pcs USB port
- 2 pc RS232

Terminals

- 4 pcs RS422
- 4 pcs ISDN (1 port) for external cables to PABX/DECT/PC/Handset/Telephone.
- 2 pcs NMEA input
- 2 pcs spare terminals

Other Interfaces

- 1 pc SIM card reader
- 4 pcs LEDs

Optional equipment

ISDN – Fax adaptor

Cabling ADE – BDU

- RG 223 25m
- RG 214 50m
- RG 1/2 170m
- S10172B11 140m

Power

18-32 V DC
External 12 V DC (optional)

Dimensions and weight

Antenna	8kg
MCU	40 x 40cm
Length	3kg
Width	31cm
Height	18cm
	8cm



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