

JUE-250 FleetBroadband



– introducing pioneering solutions for the next-generation FleetBroadband communication service

Upgrade path™ from JRC Fleet 33

Crew installation possible

Free user interface solution: JRC launch IT™

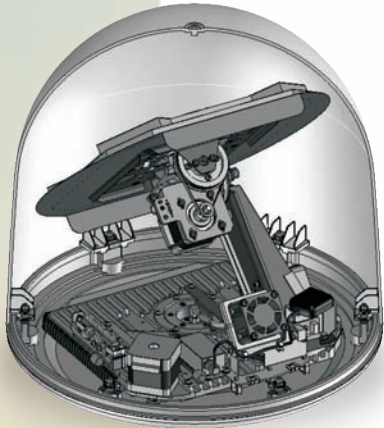
Reliable broadband data and voice

Compact solution with proven antenna design

Performance features

Unique features

- The JUE-250, a pioneering next-generation satellite communication terminal, delivers the most advanced maritime service available, fully contributing to the operational efficiency of vessel and crew.



Proven antenna design

JRC adapted its three-axis control, which is a proven stable system and the best way to keep the size of the antenna to a minimum.

Our company's long experience of antenna design ensured the antenna is robust and easy to install. No gyro or GPS input is required and it benefits from having no cable under the radome, which means there is no need for 'cable unwrap' manoeuvres to free cable that has become twisted as the device moves to locate the satellite.

Upgrade from F33 to FB250

To upgrade to JUE-250, you can re-use parts of the JRC Fleet 33 system in place. You replace only the below deck unit rather than obtaining a completely new system. This unique and cost-effective approach will provide a seamless transition to higher speeds and greater capabilities of the FB250, keeping the same antenna, and the same cabling that is already installed on the vessel.



A vital resource

By integrating the JUE-250 onboard, a captain would be able to use FleetBroadband to talk to his port agent while simultaneously perform a host of other duties, from updating weather information, route planning to maintaining the crew morale by enabling them to call and email with family and loved ones or to browse the internet - a degree of flexibility never before possible.

Optimal connectivity

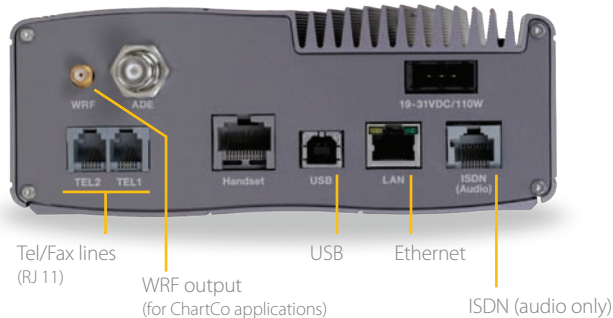
Based on 3G standards, FleetBroadband will provide constant, simultaneous access to voice and high-speed data, capable of supporting always-on broadband connectivity at speeds up to 284 kbps and streaming IP data rate of up to 128 kbps.

Additionally, it allows users to send and receive SMS messages of up to 160 characters, a feature that is proven popular with crew who are used to texting from their GSM mobiles while on shore.

Developed for maximum ease of use

Easy to install

The design includes a compact and light-weight antenna, allowing for easy and fast installation. With the antenna set in a proven 35 cm radome, installing your FB250 onboard shouldn't be a problem.



JRC's JUE-250 is a dedicated compact solution, which shares the same simple configuration as the JUE-33 Fleet 33, allowing for an easy setup. The FB250 is for new-build as well as retrofit markets and available as a full system or as an upgrade path. You can connect your own supplied hardware, such as computer and fax.

Crew installation

Now with crew installation possible, you will save on installation charges and time in port - while keeping the same warranty conditions as before.

Applications

The JRC JUE-250 support an extensive range of commercially available, off-the-shelf software, as well as specialized user applications. It is ideal for:

- Email and webmail
- Real-time electronic chart and weather updates
- Remote company intranet and internet access
- Secure communications
- Large file transfer
- Crew communications
- Vessel/engine telemetry
- SMS and instant messaging
- Videoconferencing
- Store and forward video

JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers comprehensive assistance through its organization, in partnership with a worldwide StarNetwork™ of over 270 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.



 **JRC one-call™**

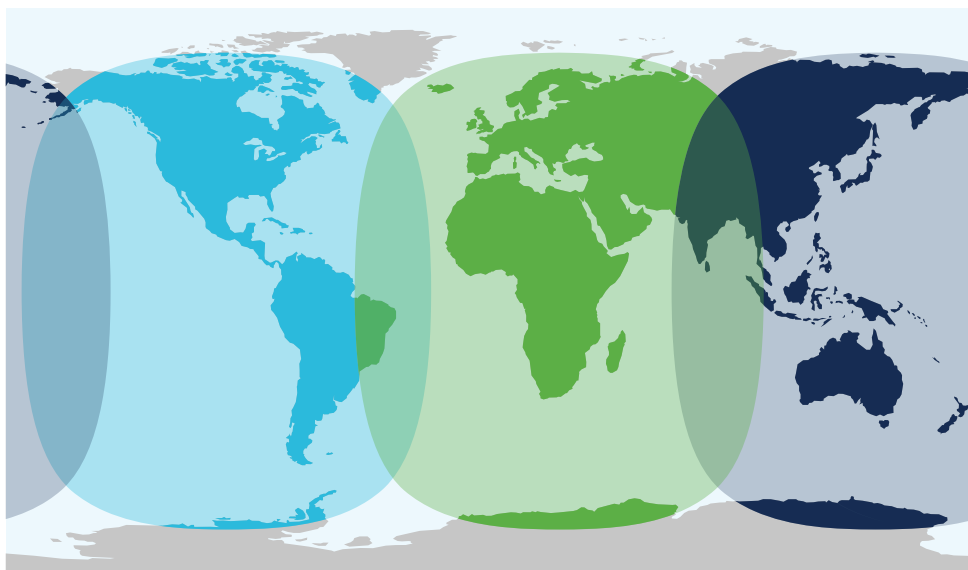
One number to call
With JRC you can go anywhere and if you need our support, simply call us at +81 3 3492 9201, anytime.




Coverage and flexibility

Global coverage

Inmarsat has been the leading communication provider of satellite services for 30 years, playing an integral role in the lives of seafarers. The Inmarsat Fleet services and JRC terminals have become the standard for deep-sea ships. Now, Inmarsat enhances its maritime portfolio with the launch of FleetBroadband and together with JRC's next-generation solution we can deliver reliable communications and safety services, contributing to the operational efficiency of vessel and crew.

FleetBroadband coverage



 I-4 Americas  I-4 EMEA  I-4 Asia-Pacific

This map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.



JRC launch IT™

JRC launch IT is a dedicated (Windows based) user interface solution for the JUE-250 (and also JUE-500), developed to improve the functionality and configuration options of the JRC FleetBroadband systems. It features the ability for port control, input and export, auto disconnect, alarm history and much more. Download the application free-of-charge from our website.

What's included?

- Antenna
- Below Deck Equipment (BDE)¹
- Handset
- Cables
- Manuals¹
- Software¹
- Installation parts¹
- Spare parts
- SIM card case

Cables included

- Signal cable 30m (antenna to BDE)
- Power cable 5m (PSU to BDE)

1. Included in the JUE-33 upgrade path™

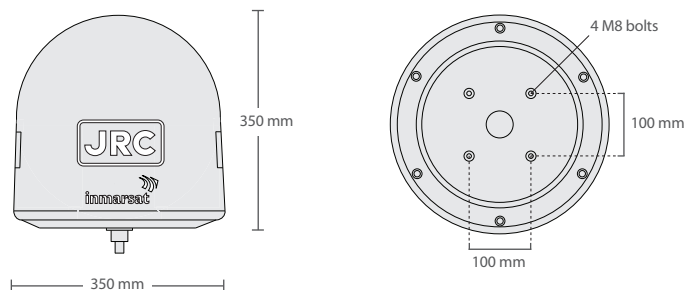


Japan Radio Co., Ltd.

Dimensions and weight

Antenna

GSC-451 Weight 7,4 kg



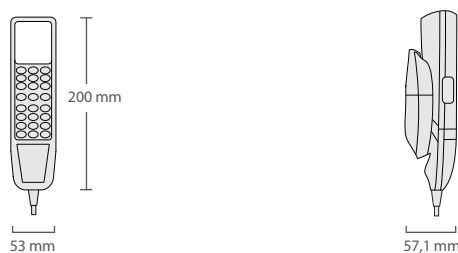
Below deck equipment

GSC-452 Weight 2,2 kg



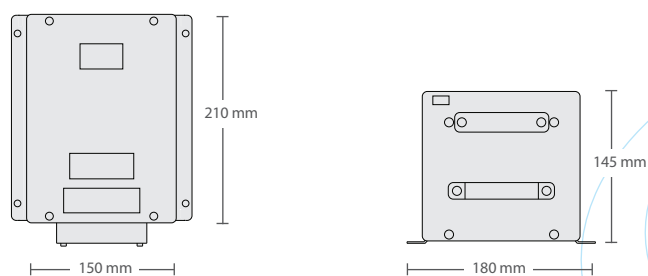
Handset

NQW-267 Weight 0,5 kg



Power supply unit (option)

NBD-577C Weight 5,4 kg



Specifications

Inmarsat type approved	✓
Frequency	
Transmit	1625.5 MHz to 1660.5 MHz
Receive	1525.0 MHz to 1559.0 MHz
Communication	
Standard IP	up to 284 kbps
Streaming IP	up to 128 kbps
Voice	4 kbps and digital 3.1 kHz audio ¹
Fax	group 3 fax via 3.1 kHz audio
SMS	Standard 3G (up to 160 characters)
Antenna	
Type	30 cm flat diameter
Polarization	right-hand circular (RHCP)
Beam width	30° at 3 dB down direction
Pointing	electrical beam tracking with 3-axis stabilization
Radome	AES
Power	
Voltage	19V to 31V DC
Current	< 2 A (at time of receive)
Maximum	< 4.5 A (at time of transmit and when optional equipment is connected)
General	
Tuning	1.25 kHz
E.I.R.P.	+ 15.1 dBW +1/-2 dB
G/T	-15.5 dB/K or more
Ambient conditions	
Temperature	antenna -25° to 55°C, below deck equipment -15° to 55°C
Relative humidity	0% to 95% non-condensing
Solar radiation	infrared 500 watts/m ² , ultraviolet 54 watts/m ²
Icing	up to 25 mm
Precipitation	up to 100 mm/h
Wind	up to 100 knots (in operation)
Ship's motion	
Roll	± 30°/8 sec
Pitch	± 10°/6 sec
Yaw	± 8°/50 sec
Surge	± 0.2g
Sway	± 0.2g
Heave	± 0.5g
Turning rate	6°/sec
Headway	30 knots
Optionals	
Power supply unit	NBD-577C (100V to 220V AC to 24V DC)
Fax (Brother)	FAX-2820 (220V to 240V)
Power transformer for fax	DD-118525 (100V to 230V), DD-118564 (110/115V to 230V)
EMC filter for fax (direct coupling 230V)	RSHN-2003
Telephone	NQW-132B
Telephone junction box	NQE-3058B
Gyro interface box	NQA-2066A

1. Above 20 degree elevation

contents are subject to change without notice



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