

# JUE-250 FleetBroadband



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

**Upgrade path™ from JRC Fleet 33**  
**Reliable broadband data and voice**  
**Dedicated compact solution**  
**Cost-effective performance and flexibility**  
**Takes your vessel into future standards**

# JUE-250 FleetBroadband – 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.

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



## Meet the challenges with FleetBroadband

FleetBroadband gives you faster, more cost-effective access to broadband services, offering seafarers an affordable voice and data option, while providing your vessel with a coverage area of millions of square miles. It is more powerful than any other solution on the market, allowing you to have the capability to reach peak performance and gain a competitive edge.

## Simultaneous access

This next generation solution offers an unparalleled range of services to suit all types and tonnages of vessels. The service provides simultaneous voice and broadband data through a compact antenna, allowing you to run online operation systems, whilst still having access to email, intranet and voice calls – a significant improvement to both operational and social use.

## Cost-effective service

With FleetBroadband, performance and flexibility do not come at a high price. Existing JRC Fleet 33 customers can utilise our dedicated upgrade path to make global voice and broadband data more accessible than ever before. You will achieve greater operational efficiencies and significantly reduce the cost of both business and crew communications.

## Optimal connectivity

Enhanced connectivity, based on 3G standards, provides constant, simultaneous access to voice and high-speed data in a compact solution, designed specifically for the marine environment.

**Standard IP** for email, internet and intranet access via a secure VPN connection, at speeds up to 284 kbps and **streaming IP guaranteed data rates** up to 128 kbps.

# JUE-250 FleetBroadband – developed for maximum ease of use

## Upgrade path™ – exclusively by JRC

The existing JUE-33 Inmarsat Fleet 33 is fully compatible and specifically designed to meet the industry-changing FleetBroadband services. This makes it necessary to replace only the main unit rather than obtaining a completely new system. This unique, cost-effective feature will provide seamless ocean coverage from 76° North to 76° South – all via a single main unit upgrade.

## Flexible interfacing

JRC's JUE-250 terminal has been developed for maximum flexibility. It features a reliable industry standard interfacing field that can be integrated with navigational equipment. No gyro or GPS input is required and by having JRC's proven no cable unwrap system integrated, operational efficiency is guaranteed.

This below deck unit enables users to have optimal connectivity no matter what the conditions or your position at sea.



- ISDN connection (audio only)
- LAN connection
- USB connection
- Dedicated JRC handset
- TEL/FAX lines RJ 11
- WRF output

## JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers comprehensive assistance through its organisation, 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.



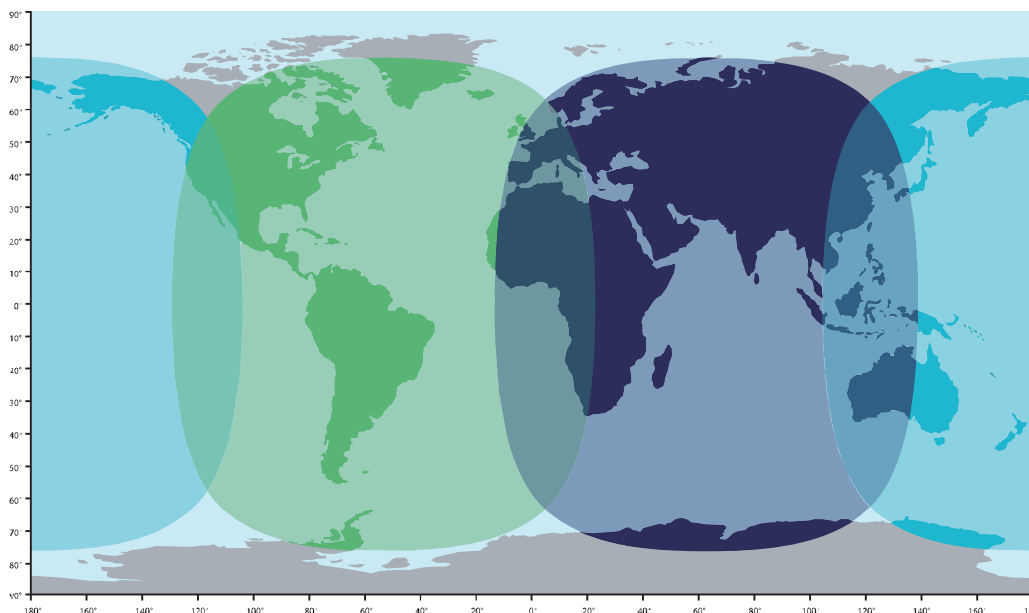
ct for keeping in touch with home

# JUE-250 FleetBroadband – coverage and flexibility

## Inmarsat and JRC, strong together

Inmarsat has been the leading communication provider of satellite services for nearly 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 satellite F1

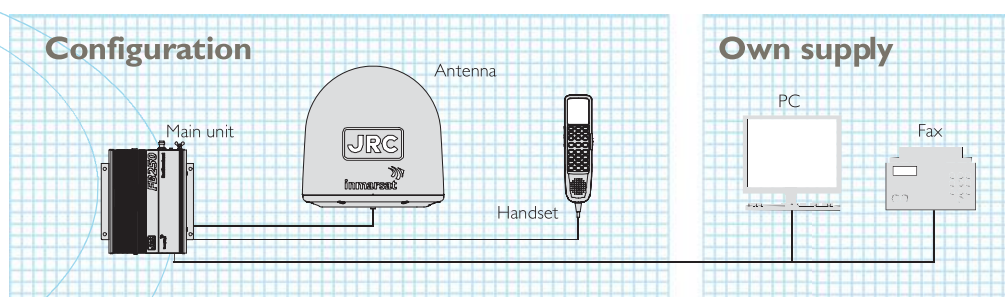
■ I-4 satellite F2

■ I-4 satellite F3  
(launch date to be finalised)

The 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. The launch date of the F-3 satellite will be determined in due course. FleetBroadband coverage May 2007.

## Total system flexibility

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. This concept also reduces the installation costs as only a single coax cable will be used between the antenna and the below deck unit. This next-generation service is for the new-build and retrofit markets and is available as a full system or an upgrade path™. It is also possible to connect your own supplied hardware, such as a computer and fax.

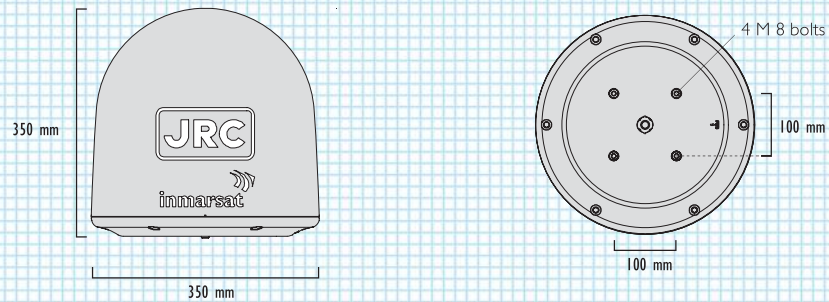


Japan Radio Co., Ltd.

# JUE-250 FleetBroadband – dimensions and mass

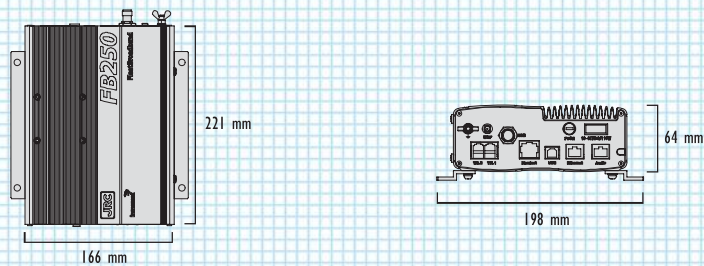
## Dimension drawings - Antenna

**GSC-451** MASS 7,4 kg

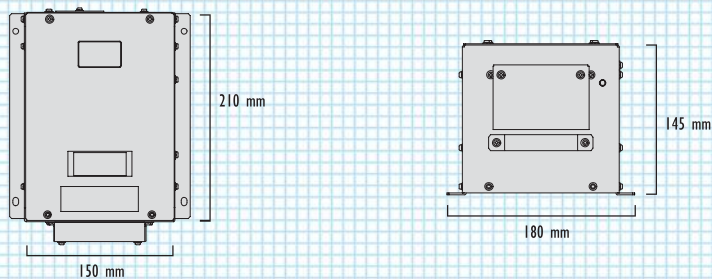


## Dimension drawings - Main unit, Power supply unit

**GSC-452** MASS 4 kg



**NBD-577C'** MASS 5,4 kg



'optional

## Dimension drawings - Handset

**NQW-248** MASS 0,5 kg



# JUE-250 FleetBroadband – specifications

Model		JUE-250
Inmarsat type approved		√
Frequency		
Transmit	1626.5MHz - 1660.5MHz	
Receive	1525.0MHz - 1559.0MHz	
Communication		
Voice	4kbps and digital 3.1kHz audio	
Fax	group 3 fax via 3.1kHz audio	
Data	standard IP : 284kbps / streaming IP : 128kbps	
SMS	standard 3G (up to 160 characters)	
Antenna		
Type	flat diameter 30cm (approx)	
Polarisation	right-hand circular	
Beam width	30° at 3dB down	
Pointing	electrical beam tracking with 3-axis stabilisation	
Enclosure	AES radome (diameter 0.35m)	
Primary power		
Voltage	DC 24V (-20% +30%)	
Consumption	[120VA] max	
Environmental conditions		
Ambient condition	temperature : antenna -25°C +55°C temperature: main unit -15°C +55°C	
Relative humidity	+40°C up to 95%	
Icing	up to 25mm	
Precipitation	up to 100mm / hour	
Wind	up to 100 knots in operation up to 120 knots in survival	
Vibration	at 2-13.2Hz amplitude ± 1mm ± 10% at 13.2-100Hz max acceleration 7m/s <sup>2</sup>	
Coverage		
Azimuth	360°	
Elevation	5° to 90°	
Ship's motion		
Roll	±30° / 8 sec	
Pitch	±10° / 6 sec	
Yaw	±8° / 50 sec	
Surge	±0.2°	
Sway	±0.2°	
Heave	±0.5°	
Turning rate	6°/sec	
Headway	30 knots	
Tuning	1.25kHz	
E.I.R.P.	+15.1dBW +1 / -2dB	
G/T	-15.5dB / K or more	
Optional items		
Power supply unit	NBD-577C (AC 110 / 220V to DC 24V)	

• Specifications may be subject to change without notice.

**For further information, contact:**



Since 1915

**Japan Radio Co., Ltd.**

URL <http://www.jrc.co.jp/eng/>

**Main Office:** Nittochi Nishi-Shinjuku bldg.  
10-1, Nishi-Shinjuku 6-chome  
Shinjuku-ku, Tokyo 160-8328, Japan  
Telephone: +81-3-3348-4099  
Facsimile: +81-3-3348-4139

**Overseas Branches :** Seattle, Amsterdam, Athens  
**Liaison Offices :** Taipei, Manila, Jakarta, Singapore,  
Hanoi, Shanghai, New York

26EM



ISO9001, ISO14001 Certified