

# JUE-251 FleetBroadband



– the second generation JRC FB250 brings a whole new level of communication to the bridge

- All-new antenna design**
- Ready for all Inmarsat FB services**
- Advanced integrated web interface**
- Single coax installation**
- Wide range of interfaces as standard**

# Features

## Features

The JUE-251 continues the success of its predecessor, featuring a reliable industry standard interface and an advanced network router in a compact design.



### All-new antenna design New

Our company's long experience of design has led to an all-new antenna - inside and out. It features a two-axis control and the base of the dome is carved from one solid piece of aluminum, making it stable and durable.

By adapting to the latest technologies, the size of the antenna is slightly reduced and has a weight reduction of 40% - while keeping it robust and easy to install.

No gyro or GPS input is required and it benefits from having no cable under the antenna, which means there is no need for "cable unwrap" maneuvers to free cable that has become twisted as the device moves to locate the satellite.

Using the same cable management philosophy as other current JRC Inmarsat products, a single coax cable is used between the antenna and main unit allowing for easy installation.

### About FleetBroadband

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

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

#### Ready for (latest) Inmarsat services:

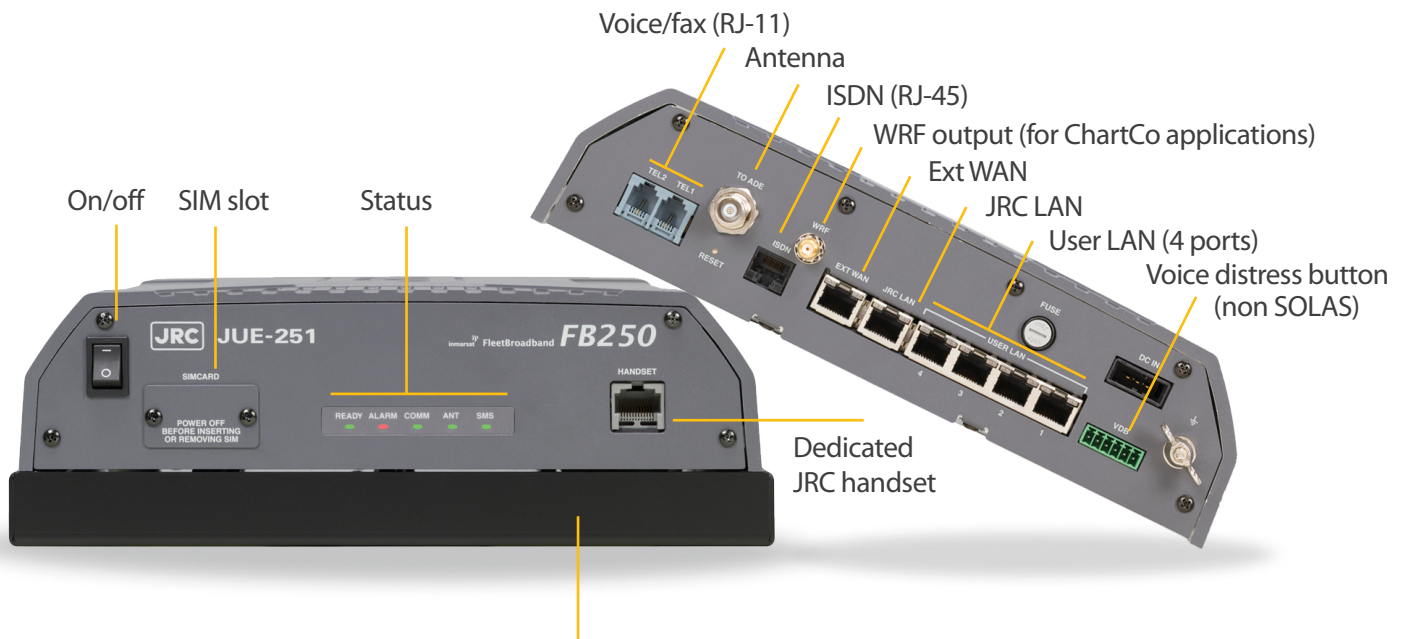
- ✓ Non SOLAS voice distress<sup>1</sup>
- ✓ Multi voice function<sup>1</sup>
- ✓ Dynamic telemetry service<sup>2</sup>
- ✓ Ancillary terrestrial component
- ✓ Alphasat
- ✓ 505 emergency calling

1. Expected support end 2012.  
2. Availability on request.

# Interfacing

## Advanced interfacing

With JRC's new JUE-251 main unit comes a whole new set of reliable interfacing, such as a dedicated non SOLAS voice distress port and an integrated WAN selector between JRC's main unit and other communication devices, which switches the unit to a secondary network when the primary network is disconnected.



## Crew installation

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

## Optional junction board New

In addition to the standard interface, JRC offers an optional junction board packed with a range of additional features. It has 4 telephone/fax lines (RJ-11), 4 external buzzers, 1 voice distress button, gyro and GPS input, remote power switch and multi-purpose dry contact ports.

## Satellite blocking New

The JUE-251 integrates a blockage setting which allows you to register up to 6 blocking areas such as the radar mast or funnel. When the line of sight to the satellite coincides with any of the pre registered blocking areas, the operator can easily recognize that there is a blockage and can take necessary action such as course change, to restore the connection.



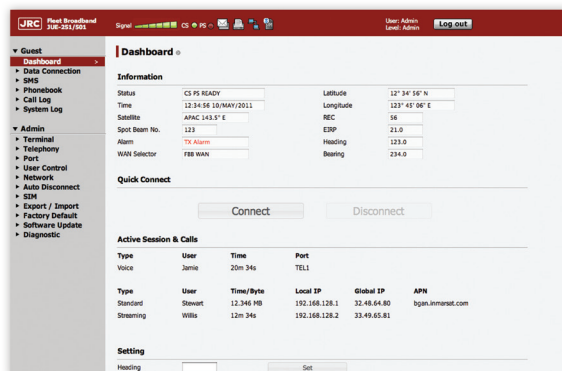
## Remote Maintenance System (RMS) New

The JUE-251 supports RMS access over a dedicated JRC IP connection, which allows for remote maintenance of supported equipment via the Inmarsat satellite link. Additionally, JRC's new Inmarsat C model, the JUE-87, can be used to poll the status of the JUE-251 from the shore, should the ships IP data connection be unavailable. [jrceurope.com/rms](http://jrceurope.com/rms)

# Flexibility

## Advanced web interface New

The JUE-251 Inmarsat FleetBroadband comes with an advanced web interface, built in as standard. This dedicated (Windows based) user interface brings together all operations. Think of it as the hub of your system - view everything and fully manage all operations with a few clicks.



Below are just a few of the many features available:

1 by 1 NAT	Diagnostics	MAC filter	Remote activate	Usage restriction
Always active	DMZ host	Multi voice	Routing table	User control
Auto disconnect	Dynamic DHCP	PBX	SIM configure	VLAN
Blockage indication	Export	Phonebook	SMS	VPN (IPsec)
Call log	Import	Port forward	Static DHCP	WAN filter
Dashboard	IP masquerade	PPPoE	Supplementary	WAN profile
Data connection	LAN group	Proxy DNS	System log	WAN selector



## Voice distress button New

The JUE-251 will support Inmarsat's voice distress service with an optional voice distress button, connected directly to the main unit. A voice distress call has the priority and pre-emption over any calls on the Inmarsat satellite network, guaranteed to get through to an appropriate Maritime Rescue Coordination Center (MRCC). The service is not currently GMDSS compliant.

### What's standard?

- Antenna
- Main unit
- Handset
- Antenna cable (30 m)
- Power cable (5 m)
- Manuals
- Inspection result
- CD
- Installation parts
- Spares

### What's optional?

- Antenna cable 15, 30 (std), 35, 40, 45, 50, 70, 100 m
- Junction board CQD-2243
- Power supply NBD-904
- External buzzer NCE-6824A (max 4)
- Voice distress button NQE-3301 (max 2)
- Fax (Brother FAX-2820)
- Power transformer fax DD-118525 (100V), DD-118584 (115V)
- EMC filter for fax RSHN-2003 (for 230V direct coupling)
- Telephone NQW-132B (max 6)
- Telephone junction box NQE-3058C (max 10)
- Handset extension cable 7ZCSC0291 (5 m)
- Gyro interface box NQA-2066A

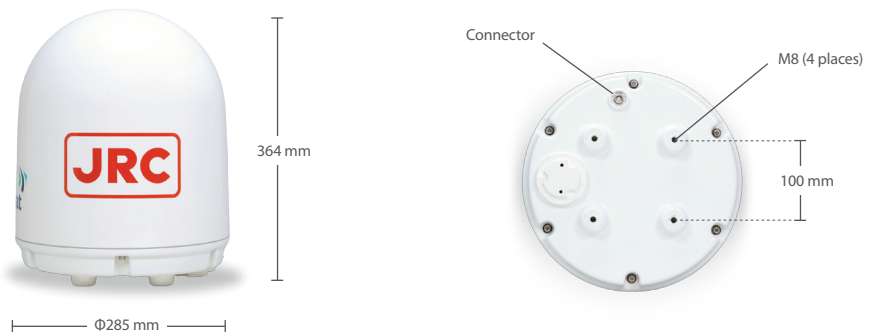


*Japan Radio Co., Ltd.*

# Weight and dimensions

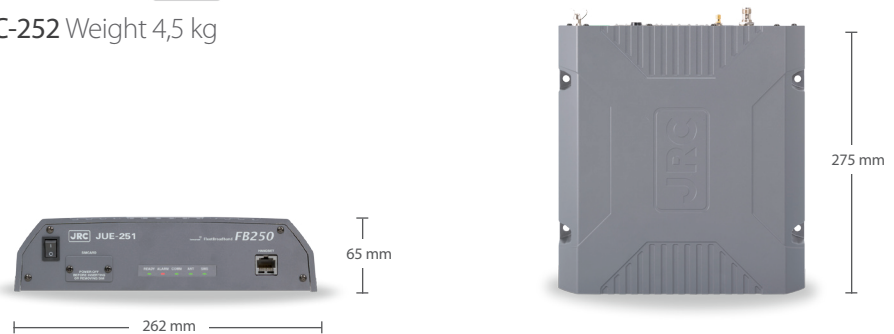
## Antenna New

GSC-251 Weight 4,7 kg



## Main unit New

GSC-252 Weight 4,5 kg



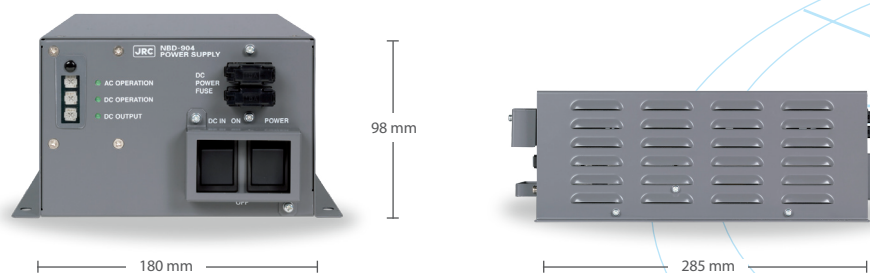
## Handset

NQW-267 Weight 0,5 kg



## Power supply option New

NBD-904 Weight 2,6 kg



# Specifications

	<b>JUE-251</b>
Inmarsat type approved	✓
RoHS	✓
Frequency <span style="color: #0070C0;">New</span>	Transmit 1626.5–1660.5 MHz, 1668.0–1675.0 MHz receive 1518.0–1559.0 MHz
Voice/fax	4 kbps voice, G3 fax
Data	Streaming IP: 8, 16, 32, 64, 128 kbps, standard IP: 284 kbps, SMS: 3G (up to 160 characters)
Antenna type <span style="color: #0070C0;">New</span>	24 cm flat diameter, 2 axis control system, AES enclosure
Beam width	40° in 3dB direction
Power	21.6–31.2V DC (optional PSU 90–264V AC)
Consumption	Less than 160W
Power output PoE <span style="color: #0070C0;">New</span>	Up to 15.4W per port (total 32W max)
Antenna environmental	Infrared: 500W/m <sup>2</sup> , ultraviolet: 54W/m <sup>2</sup> , icing 25mm, precipitation: 100mm/hr, wind: 100kn
Ship's motion	Roll: ±30°/8 sec, pitch: ±10°/6 sec, yaw: ±8°/50 sec, surge: ±0.2g, sway: ±0.2g, heave: ±0.5g, rate of turn (ROT): ±6°/sec, headway: 30kn
E.I.R.P.	+15.1dBW +1/-2dB (class 9)
G/T	-15.5dB (class 9)
Handset	1 port (main unit)
RJ11 telephone/fax	2 ports (main unit), 4 ports (optional junction board)
LAN	6 ports (main unit) 1 port: JRC LAN, 1 port: EXT WAN, 4 ports: free use and support PoE
ISDN	1 port for 3.1k audio only (INS/ETSI) (main unit)
External GPS input	IEC61162-1 (optional junction board)
GPS output	Via LAN
External gyro input <sup>1</sup>	1 port (optional junction board)
WRF output	1 port (main unit)
External buzzer	4 ports (optional junction board)
Distress button <span style="color: #0070C0;">New</span>	1 port (main unit), 1 port (optional junction board) for non SOLAS distress
Antenna connector	1 port - TNC female (main unit)
External in/out	Alarm output via JRC LAN (main unit), remote power switch control, incoming call output, incoming call acknowledge input (optional junction board)
SIM card	1 slot with protective cover (main unit)
Ambient conditions	Operating temperature: -25° to 55°C (antenna, main unit) -15° to 55°C (handset) Storage temperature: -40° to 80°C IP protection rate: IP56 (antenna), IP22 (main unit), IPX0 (handset) Relative humidity: 0% to 95% non-condensing

1. Gyro interface required when gyro signal is SYNC or STEP

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