

# JUE-251 FleetBroadband



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

- All-new above deck equipment (ADE) design**
- Ready for all Inmarsat FB services**
- Advanced integrated web interface**
- Single coax installation**
- Wide range of interfaces as standard**

# JUE-251 – 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 above deck equipment (ADE) design New

Our company's long experience of design has led to an all-new ADE - 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 inside, 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 ADE 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>
- ✓ Ancillary terrestrial component
- ✓ Alphasat
- ✓ 505 emergency calling

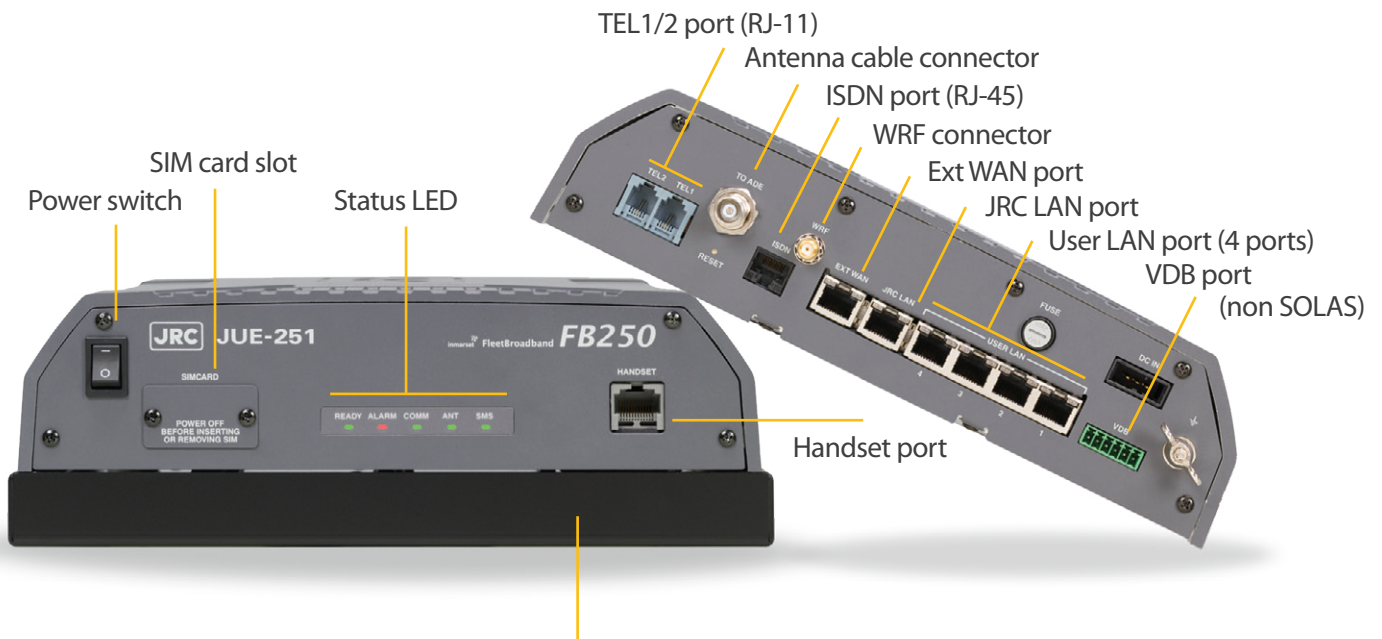
\*1: Expected support end 2013

# JUE-251

## – interfacing

### Advanced interfacing

With JRC's new JUE-251 BDE 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 BDE 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

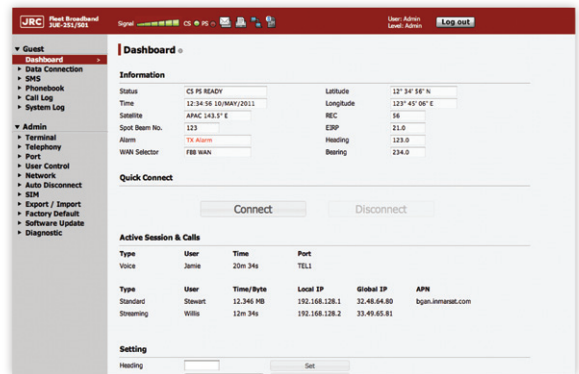
The JUE-251 supports RMS access over a dedicated JRC IP connection, which allows for remote maintenance of supported equipment via the Inmarsat satellite link. Additionally, JRC's new Inmarsat C model, the JUE-87, can be used to poll the status of the JUE-251 from the shore, should the ships IP data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

# JUE-251

## – 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 BDE. 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?

- ADE
- BDE
- Handset
- PSU cable
- Manuals
- Inspection result
- CD-ROM
- Installation parts
- Spare fuse for BDE

### What's optional?

- Coaxial cable
- Relay cable
- Relay connector
- Junction board
- External power supply unit
- External buzzer
- Voice distress button
- Wall mount adapter for VDB
- Facsimile
- Power transformer for facsimile
- EMC filter for facsimile
- Telephone
- Telephone junction box
- Handset extension cable
- GYRO I/F box
- CFQ-5924A3<sup>\*1</sup>
- 7ZCSC0212<sup>\*2</sup>
- 5JAAE01753<sup>\*3</sup>
- CQD-2243
- NBD-904
- NCE-6824A (max 4)
- NQE-3301 (max 2)
- 7ZZSC0095 (not required for flush mount)
- 7EZSC0060 (brother FAX-2820)
- DD-118525 (100V), DD-118584 (115V)
- RSHN-2003 (for 230V direct coupling)
- NQW-132B (max 6)
- NQE-3058C (max 10)
- 7ZCSC0291 (5 m)
- NQA-2066A

\*1: JUE-251's standard cable is 30m (CFQ-5924A3) and JRC prepared in 15m (CFQ-5924A15) and 35, 40, 45, 50m (CFQ-3922Ax), 70 and 100m (CFQ-3923Ax).

\*2: Between CFQ-3922A/3923A and BDE.

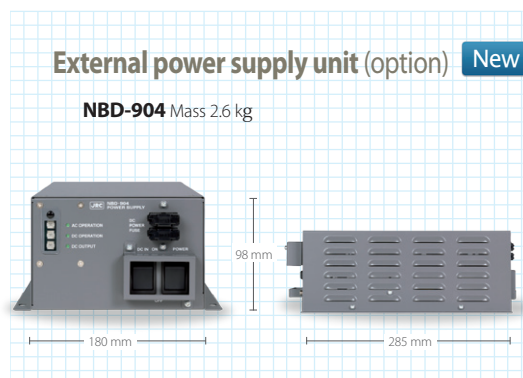
\*3: In case of connecting CFQ-3922A/3923A cable to ADE.



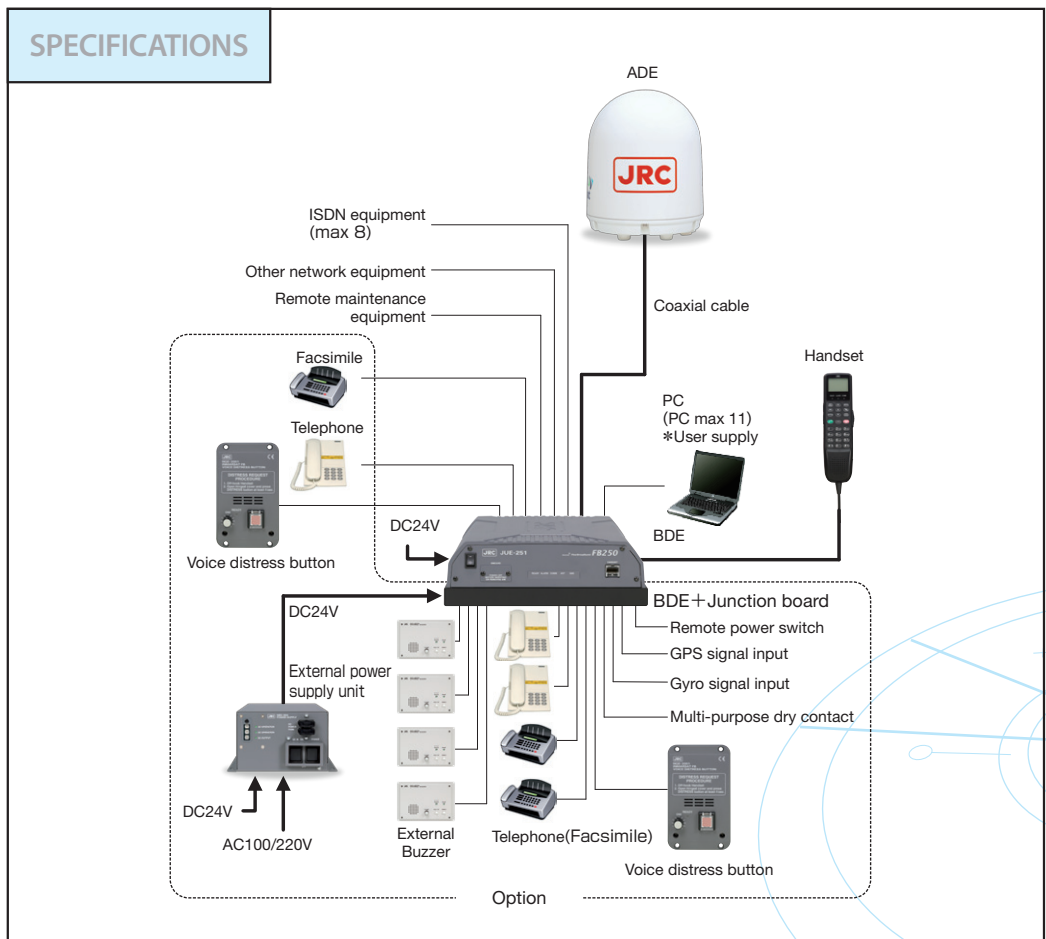
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# JUE-251

## – dimensions



### SPECIFICATIONS



# JUE-251

## – specifications

Model	JUE-251
Inmarsat type approved	○ Class 9
RoHS	✓
Frequency	Transmit 1626.5-1660.5 MHz, 1668.0-1675.0 MHz receive 1518.0-1559.0 MHz
Voice/facsimile	4 kbps voice, G3 facsimile
Data	Streaming IP: 8, 16, 32, 64, 128 kbps, standard IP: 284 kbps, SMS: 3G (up to 160 characters)
Antenna type <span>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 External power supply unit 100-230V AC)
Consumption	Less than 160W
Power output PoE <span>New</span>	Up to 15.4W per port (total 32W max)
ADE 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 (BDE)
RJ11 telephone/facsimile	2 ports (BDE), 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 (BDE)
External GPS input	IEC61162-1 (optional Junction board)
GPS output	Via LAN
External gyro input*1	1 port (optional Junction board)
WRF output	1 port (BDE)
External buzzer	2 ports (optional Junction board)
Voice distress button <span>New</span>	1 port (BDE), 1 port (optional Junction board) for non SOLAS distress
ADE connector	1 port - TNC female (BDE)
External input/output	Alarm output via JRC LAN (BDE), remote power switch control, incoming call output, incoming call acknowledge input (optional Junction board)
SIM card slot	1 slot with protective cover (BDE)
Ambient conditions	Operating temperature: -25 to 55°C (ADE, BDE) -15 to 55°C (Handset) Storage temperature: -40 to 80°C IP protection rate: IP56 (ADE), IP22 (BDE), IPX0 (Handset) Relative humidity: 0 to 95% non-condensing

\*1 : Gyro interface required when gyro signal is SYNC or STEP

• Specifications may be subject to change without notice.

**For further information, contact:**



Since 1915

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