

JUE-501 FleetBroadband

JRC




inmarsat

– with the new JRC JUE-501 FleetBroadband FB500 onboard communication has never been this fast

Proven above deck equipment (ADE) design

Ready for all Inmarsat FB services

Advanced integrated web interface

Single coax installation

Wide range of interfaces as standard

 *Japan Radio Co., Ltd.*

JUE-501

- features

Features

The JUE-501, the latest-generation maritime communication solution from JRC, is compactly designed, easy to install and puts high-speed connectivity right at your fingertips.



Proven above deck equipment (ADE) design

Our company's long experience of antenna design has ensured that the ADE (above deck equipment) is 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' manoeuvres 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 BDE (below deck equipment) allowing for easy installation.

These and more features make the electronics and mechanical design of the JRC JUE-500 as advanced on the inside as it is on the outside.

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 432kbps and streaming IP data rate of up to 256kbps.

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*1
- ✓ Multi voice function*1
- ✓ Ancillary terrestrial component
- ✓ Alphasat
- ✓ SOS emergency calling

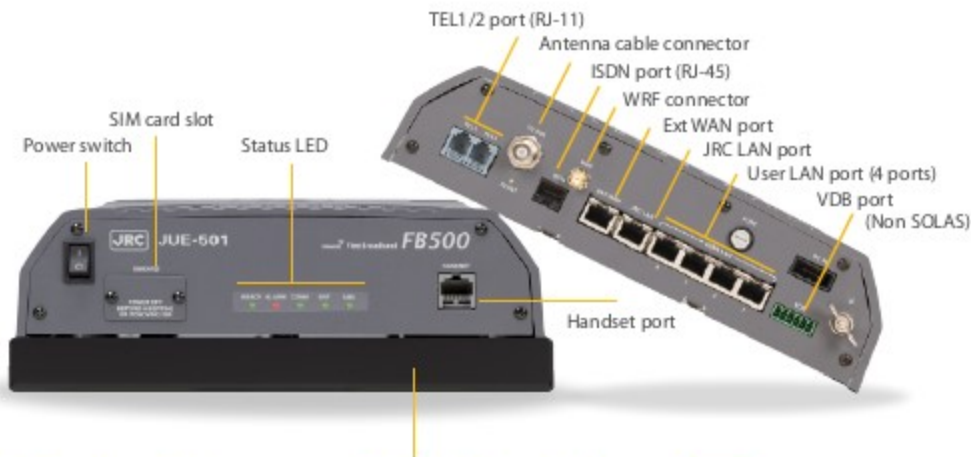
*1: Expected support end 2013

JUE-501

- interfacing

Advanced interfacing

With JRC's new JUE-501 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-501 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-501 supports RMS access via ISDN as well as 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-501 from the shore, should the ship's IP data connection be unavailable.

JUE-501

- flexibility

Advanced web interface New

The JUE-501 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-501 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
- 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 V/F box

- CFQ-3922A5^{*1}
- 7ZCSC0212^{*2}
- 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

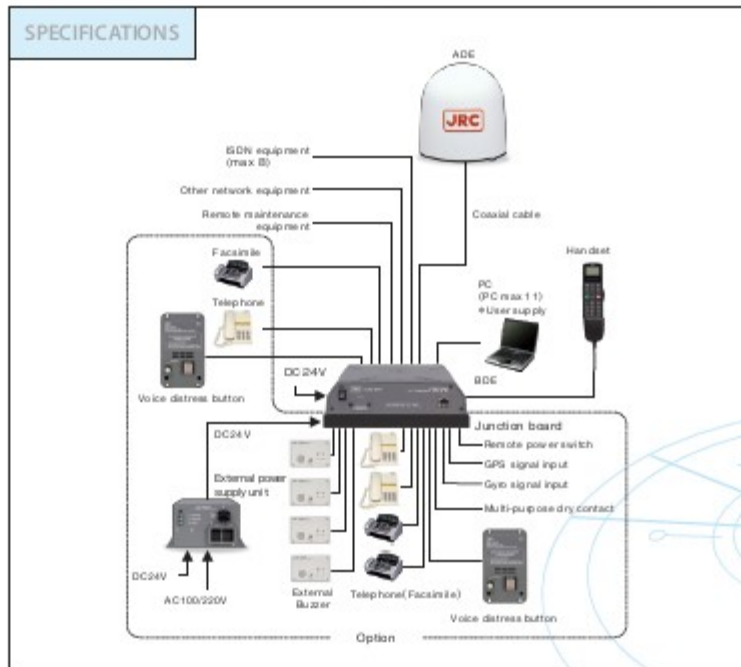
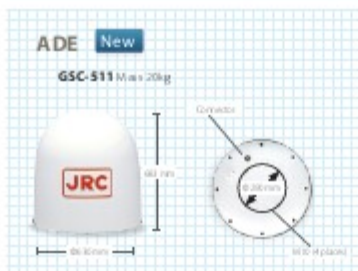
*1: JUE-501's standard cable is 50m (CFQ-3922A5) and JRC prepared in 15, 20, 25, 30, 35, 40, 45m (CFQ-3922A6), 70 and 100m (CFQ-3923A6).

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



JUE-501

- dimensions



Japan Radio Co., Ltd.

JUE-501

- specifications

| Model | JUE-501 |
|---|---|
| Inmarsat type approved | ○ (Class 8) |
| RoHS | ✓ |
| Frequency new | Transmit 1626.5-1660.5 MHz, 1668.0-1675.0 MHz receive 1518.0-1529.0 MHz |
| Voice/facsimile | 4 kbps voice, G3 facsimile |
| Data | Streaming IP: 8, 16, 32, 64, 128, 256 kbps, standard IP: 432 kbps, SMS: 3G (up to 160 characters) |
| Antenna type | 54 cm flat diameter, 3 axis control system, GFRP enclosure |
| Beam width | 22° in 3dB direction |
| Power | 21.6-31.2VDC (optional External power supply unit 100-230V AC) |
| Consumption | Less than 180W |
| Power output PoE new | Up to 15.4W per port (total 32W max) |
| ADE environmental | Infrared: 900W/m ² , ultraviolet: 54W/m ² , 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. | +22dBW +1/-2dB (class 8) |
| G/T | -7.0dB (class 8) |
| Handset | 1 port (BDE) |
| RJ11 telephone/facsimile | 2 ports (BDE), 4 ports (optional Junction board) |
| LAN | 6 ports (BDE) 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 | EC61162-1 (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 new | 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) -15 to 55°C (BDE, 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:



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Since 1915

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