# JUE-85 Inmarsat C for GMDSS

## Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Internally Mounted Equipment (IME)</td>
<td>NTF-781GM</td>
</tr>
<tr>
<td>Externally Mounted Equipment (EME)</td>
<td>NAF-741GM (including pole mounting bracket)</td>
</tr>
<tr>
<td>Frequency TX</td>
<td>1626.5MHz - 1646.5MHz</td>
</tr>
<tr>
<td>Frequency RX</td>
<td>1530.0MHz - 1545.0MHz</td>
</tr>
<tr>
<td>GPS Frequency</td>
<td>1575.2 MHz ±1MHz</td>
</tr>
<tr>
<td>Channel spacing</td>
<td>5KHz</td>
</tr>
<tr>
<td>G/T</td>
<td>−23.7dB/K minimum</td>
</tr>
<tr>
<td>E.I.R.P</td>
<td>within 14 ±2dBW (at 5º angle)</td>
</tr>
<tr>
<td>Modulation TX and RX</td>
<td>1200 symbols/sec BPSK</td>
</tr>
<tr>
<td>Data rate TX and RX</td>
<td>600bps</td>
</tr>
<tr>
<td>Antenna type</td>
<td>helical, pattern: hemisphere, polarisation: right hand circular</td>
</tr>
<tr>
<td>Power supply voltage</td>
<td>DC 24V (+19.2V to +31.2V)</td>
</tr>
<tr>
<td>Power consumption transmission</td>
<td>100W</td>
</tr>
<tr>
<td>Power consumption standby</td>
<td>15W</td>
</tr>
<tr>
<td>Temperature</td>
<td>EME: −35°C +55°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>+40ºC, up to 95%</td>
</tr>
<tr>
<td>Rain</td>
<td>up to 100mm</td>
</tr>
<tr>
<td>Wind</td>
<td>up to 100 knots</td>
</tr>
<tr>
<td>Vibration</td>
<td>as specified by Inmarsat</td>
</tr>
<tr>
<td>Memory backup</td>
<td>24 hours or more</td>
</tr>
<tr>
<td>Power supply</td>
<td>DC 24V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>0.9A</td>
</tr>
<tr>
<td>Printer</td>
<td>Model NKG-800</td>
</tr>
<tr>
<td>Line interface</td>
<td>Parallel</td>
</tr>
<tr>
<td>Power supply</td>
<td>DC 24V (+19.2V to +31.2V)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>approx. 35W</td>
</tr>
</tbody>
</table>

## Optional Items

- Remote distress button NQE-887C (for IMO vessels 1 unit is required)
- Buzzer box NCE-6255A
- Remote data terminal NDZ-227
- DTE Mounting Bracket MPBP31721
- Keyboard for remote data terminal NDF-369
- Security button NQE-3154
- Junction box extension NQA-4281

## Dimensions

- **IME**: NTF-781GM - Mass 1.3 kg, 150 mm x 376 mm x 380 mm
- **EME**: NAF-741GM (including pole mounting bracket) - Mass 1.5 kg, 144 mm x 224 mm x 80 mm
- **Power Supply**: NBD-843A - Mass 8 kg, 425 mm x 79 mm x 400 mm
- **Data Terminal Equipment**: NDZ-227 - Mass 2.0 kg, 282 mm x 286 mm x 358.4 mm
- **Printer**: NKG-800 - Mass 3.7 kg, 380 mm x 153 mm x 210 mm

## Configuration

- Internally Mounted Equipment
  - Switching Power Supply
  - Security Buttons:
    - (4 Max.)
  - Remote Distress Buttons:
    - (3 Max.)
  - External Buzzers:
    - (4 Max.)
- Externally Mounted Equipment
  - Coaxial Cable
  - Switching Power Supply
  - Security Buttons
  - Remote Distress Buttons
  - External Buzzers
  - Line Interface: Standard
    - Option: Dot line

## Contact Information

JRC introduces a dedicated two-way Inmarsat C global data communication solution.

- High reliability system
- Compact design
- Single coax installation
- Optional Ship Security Alert System (SSAS)
- LRIT integrated as standard

---

JRC Radio Co., Ltd.

Osaka Branch: Osaka, Osaka, Osaka, Japan

Chicago Office: Chicago, Chicago, USA

Paris Office: Paris, France, France

Tokyo Office: Tokyo, Tokyo, Japan

Email: sales@jrc.com

Tel: +81-3-5401-8181

Fax: +81-3-5401-8181
Inmarsat C – a reliable mobile satellite communications system

**Unique features**

- The JUE-85 is a highly reliable mobile satellite message communication system, having the ability to handle commercial operational and personal messages just as easily as distress and safety communications.

**All-in-one solution**

The JRC JUE-85 Inmarsat system is comprised of a small Internally Mounted Equipment (IME), an Internally Mounted Equipment (IME) station, together with an Inmarsat C Mobile Earth Station (MES) and an AC/DC Power Supply Unit. As a GMDSS equipment, JRC also includes a printer as standard, offering a total solution to the shipping industry.

**About the Inmarsat C system**

JRC JUE-85 Inmarsat C is a digital satellite communication system whereby anything that can be encoded into digital format, whether text, numeric data from instruments or other information can be sent and received over the system. A simple user interface allows sending and receiving messages.

**Store and forward messages**

The Inmarsat C system is known as a store-and-forward messaging system. When sending a ship-to-ship message, it is edited on the Data Terminal Equipment (DTE) and then transmitted in a series of data packets to an Inmarsat C Mobile Earth Station (MES). The MES acts as an interface or gateway between the satellite and the telecommunications network on land. The MES stores the data packets, assembles them into a single message and forwards it (hence the term store-and-forwarding) over the telecommunications network to its addressed destination.

**Data reporting and polling**

JUE-85 Inmarsat C is programmed to automatically respond to a polling request from shore-based customers, as they may need to acquire information from vessels. The polling command ‘instructs’ a station or group of stations to send a variety of onboard data immediately.

**Self diagnosis**

JRC’s Mobile Inmarsat C Mobile Earth Station (MES) incorporates various self-diagnostic programs to aid daily maintenance and troubleshooting, reporting any possible problems it might suffer. The results are displayed on the Data Terminal Equipment (DTE). These functions allow for easy maintenance and more reliability. In addition, automatic testing for performance verification and commissioning via the satellite channel is also available.

**Jmail**

Jmail, a freeware application developed by JRC, enables you to transmit and receive email messages, very easily on the JUE-85 Mobile Earth Station (MES). In addition, this program allows you to receive EGC messages.

**Security alert add-on kit**

The Ship Security Alerting System (SSAS) is a system that contributes to the IMO’s efforts to strengthen maritime security and suppress acts of terrorism and piracy against shipping. In case of attempted piracy or terrorism, the vessel’s SSAS function can be activated, and appropriate law enforcement or military forces can be alerted.

**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 210 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.

**What’s the standard in the box?**

1. Externally Mounted Equipment (EME)
2. Internally Mounted Equipment (IME)
3. Data Terminal Equipment (DTE)
4. Printer (+ roll paper)
5. AC/DC Switching Power Supply Unit
6. Pole mounting bracket
7. Cables
8. Spare parts
10. Operation guide

**Enhanced Group Calling (EGC)**

JRC total Inmarsat C solution incorporates a special capability known as Enhanced Group Calling (EGC), which enables authorised information providers to broadcast international safety and commercial services messages to selected groups of ships. EGC is available as standard on the JUE-85 Mobile Earth Station (MES).

**Switching power**

If the vessel’s main power supply (AC source) fails, the JUE-85 will automatically switch to the emergency DC source. This is one of the necessary requirements to meet the Global Maritime Distress Safety System (GMDSS) regulations.

**Flexible installation**

The JUE-85 Inmarsat C system has the same cable management philosophy as resembling all other Inmarsat products that JRC is offering, allowing for an easy installation as only a single coaxial cable is used between Externally Mounted Equipment (IME) and Internally Mounted Equipment (IME). Both are very compact and can be easily installed on any size and type of vessel.
Inmarsat C – a reliable mobile satellite communications system

Unique features
- The JUE-85 is a highly reliable mobile satellite message communication system, having the ability to handle commercial operational and personal messages just as easily as distress and safety communications.

All-in-one solution
The JRC JUE-85 Inmarsat system is comprised of a small Externally Mounted Equipment(EME), an Internally Mounted Equipment(IME) with a coax cable, together with a Data Terminal Equipment(DTE) and an AC/DC Power Supply Unit. As a GMDSS equipment, JRC also includes a printer as standard, offering a total solution to the shipping industry.

About the Inmarsat C system
The JRC JUE-85 Inmarsat C is a digital satellite communication system whereby anything that can be encoded into digital format, whether text, numeric data from instruments or other information can be sent and received over the system. A simple user interface allows sending and receiving messages.

Store and forward messages
The Inmarsat C system is known as a store-and-forward messaging system. When sending a ship-to-ship message, it is encoded on the Data Terminal Equipment(DTE) and then transmitted in a series of data packets to an Inmarsat C land earth station (LES). The LES acts as an interface to the satellite and the telecommunications network on land. The LES stores the data packets, assembles them into a single message and forwards it (hence the term store-and-forward) over the telecommunications network to its addressed destination.

Data reporting and polling
JUE-85 Inmarsat C is programmed to automatically respond to a polling request from shore-based customers, as they may need to acquire information from vessels. The poll command ‘Inmarsat’ is a station or group of stations to send a variety of onboard data immediately.

Self diagnosis
JRC’s mobile Inmarsat C Mobile Earth Station(NES) incorporates various self-diagnostic programs to facilitate maintenance and troubleshooting, reporting any possible problems it may suffer. The results are displayed on the Data Terminal Equipment(DTE). These functions allow for easy maintenance and more reliability.

In addition, automatic testing for performance verification and commissioning via the satellite channel is also available.

JMail
Jmail is a freeware application developed by JRC, enabling you to transmit and receive email messages, easily on the JUE-85 Mobile Earth Station(NES). In addition, this program allows you to receive EGC messages.

Security alert add-on kit
The Ship Security Alerting System(SSAS) is a system that contributes to the IMO’s efforts to strengthen maritime security and suppress acts of terrorism and piracy against shipping. In case of attempted piracy or terrorism, the vessel’s SSAS function can be activated, and appropriate law-enforcement or military forces can be alerted.

JRC StarNetwork™
JRC has been providing sales and support of products since 1975. 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.

Flexible installation
The JRC JUE-85 Inmarsat C system has the same cable management philosophy resembling all other Inmarsat products that JRC is offering, allowing for an easy installation as only a single coax cable is used between Externally Mounted Equipment(EME) and Internally Mounted Equipment(IME). Both are very compact and can be easily installed on any size and type of vessel.

What’s in the box?
1. Externally Mounted Equipment(EME)
2. Internally Mounted Equipment(IME)
3. Data Terminal Equipment(DTE)
4. Printer (+ roll paper)
5. AC/DC Switching Power Supply Unit
6. Pole mounting bracket
7. Cables
8. Spare parts
10. Operation guide

JRC offers a one-call™ - developed for maximum ease of use

Distress alert
Your vessel’s ID, position, course, speed, date and time is acquired either manually or from a GNSS receiver, such as GPS, allowing you to send a distress alert simply by pressing and holding the dedicated built-in distress button.

Enhanced Group Calling (EGC)
JRC’s mobile Inmarsat C solution incorporates a special capability known as Enhanced Group Calling (EGC), which allows authorised information providers to broadcast international safety and commercial service messages to selected groups of ships. EGC is available as standard on the JUE-85 Mobile Earth Station(NES).

Two EGC services are available:
EGC SafetyNET — the international safety service, which broadcasts maritime safety information, such as meteorological and hydrographic messages, to all ships in certain geographical areas.
EGC FleetNET — the international commercial service, it is a subscription service, and allows shipping companies or governments to broadcast messages to selected groups of vessels.

Switching power
If the vessel’s main power supply (JRC source) fails, the JUE-85 will automatically switch to the emergency DC source. This is one of the necessary requirements to meet the Global Maritime Distress Safety System (GMDSS) regulations.

JRC StarNetwork™
JRC StarNetwork™ is the international network of sales, support and marketing offices, assisting you 24 hours a day, 7 days a week and 365 days a year.

One number to call
If you need our support, simply call us at +81 3 3492 9201, anytime.

What’s in the box?
1. Externally Mounted Equipment(EME)
2. Internally Mounted Equipment(IME)
3. Data Terminal Equipment(DTE)
4. Printer (+ roll paper)
5. AC/DC Switching Power Supply Unit
6. Pole mounting bracket
7. Cables
8. Spare parts
10. Operation guide

*excluding bracket
Inmarsat C – a reliable mobile satellite communications system

JRC JUE-85 Inmarsat C system is comprised of a small Internally Mounted Equipment(IME), an Internally Mounted Equipment(IME) with a series button, together with a Data Terminal Equipment(STE) and an AC/DC Power Supply Unit. As a GMDSS equipment, JRC also includes a printer as standard, offering a total solution to the shipping industry.

All-in-one solution

The JRC JUE-85 Inmarsat system is comprised of a small Internally Mounted Equipment(IME), an Internally Mounted Equipment(IME) with a series button, together with a Data Terminal Equipment(STE) and an AC/DC Power Supply Unit. As a GMDSS equipment, JRC also includes a printer as standard, offering a total solution to the shipping industry.

Unique features
- The JUE-85 is a highly reliable mobile satellite message communication system, having the ability to handle commercial operational and personal messages just as easily as distress and safety communications.

JRC JUE-85 Inmarsat C is programmed to automatically respond to a polling request from shore-based customers, as they may need to acquire information from vessels. The polling command is a station or group of stations to send a variety of onboard data to shore-based customers, as they may need to acquire information from vessels. The polling command instructs a station or group of stations to send a variety of onboard data to shore-based customers, as they may need to acquire information from vessels.

JUE-85 Inmarsat C – developed for maximum ease of use

Self diagnosis

JRC's mobile Inmarsat C Mobile Earth Station(MES) incorporates various self-diagnostic programs to facilitate maintenance and troubleshooting, reporting any possible problems it might suffer. The results are displayed on the Data Terminal Equipment(STE). These functions allow for easy maintenance and more reliability. In addition, automatic testing for performance verification and commissioning via the satellite channel is also available.

Security alert add-on kit

The Ship Security Alerting System(SSAS) is a system that contributes to the IMO's efforts to strengthen maritime security and suppress acts of terrorism and piracy against shipping. In case of attempted piracy or terrorism, the vessel's SSAS function can be activated, and appropriate law enforcement or military forces can be alerted.

About the Inmarsat C system

JRC JUE-85 Inmarsat C is a digital satellite communication system whereby anything that can be encoded into digital format, whether text, numeric, data from instruments or other information can be sent and received over the system. A simple user interface allows sending and receiving messages.

Flexible installation

The JRC JUE-85 Inmarsat C system is known as a store-and-forward messaging system. When sending a ship-to-ship message, it is edited on the Data Terminal Equipment(STE) and then transmitted via a series of data packets to an Internally Mounted Equipment(IME). The LES acts as an interface (or gateway) between the satellite and the telecommunications network on land. The LES stores the data packets, assembles them into a single message and forwards it (hence the term store-and-forwarding) over the telecommunications network to its addressed destination.

Security alert add-on kit

The security alert add-on kit is a system that contributes to the IMO's efforts to strengthen maritime security and suppress acts of terrorism and piracy against shipping. In case of attempted piracy or terrorism, the vessel's SSAS function can be activated, and appropriate law enforcement or military forces can be alerted.

JRC JUE-85 Inmarsat C – system flexibility

Distress alert

Your vessel's ID, position, course, speed, and time is acquired either manually or from a GNSS receiver, such as GPS, allowing you to send a distress alert simply by pressing and holding the dedicated built-in distress button.

Enhanced Group Calling (EGC)

JRC JUE-85 Inmarsat C system incorporates a special capability known as Enhanced Group Calling(EGC), which enables authorised information providers to broadcast international safety and commercial messages to selected groups of ships. EGC is available as standard on the JUE-85 Mobile Earth Station(MES).

Two EGC services are available:

EGC SafetyNET – is the international safety service, which broadcasts maritime safety information, such as meteorological and hydrographic messages to all ships in certain geographical areas.

EGC FleetNET – is the international commercial service, it is a subscription service, and allows shipping companies or governments to broadcast messages to selected groups of vessels.

Switching power

If the vessel's main power supply (AC source) fails, the JUE-85 will automatically switch to the emergency DC source. This is one of the necessary requirements to meet the Global Maritime Distress Safety System(GMDSS) regulations.

JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers a comprehensive assistance through its organisation, in partnership with a worldwide StarNetwork™ of over 210 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.

About the Inmarsat C system

JRC JUE-85 Inmarsat C is a digital satellite communication system whereby anything that can be encoded into digital format, whether text, numeric, data from instruments or other information can be sent and received over the system. A simple user interface allows sending and receiving messages.

Flexible installation

The JRC JUE-85 Inmarsat C system is known as a store-and-forward messaging system. When sending a ship-to-ship message, it is edited on the Data Terminal Equipment(STE) and then transmitted via a series of data packets to an Internally Mounted Equipment(IME). The LES acts as an interface (or gateway) between the satellite and the telecommunications network on land. The LES stores the data packets, assembles them into a single message and forwards it (hence the term store-and-forwarding) over the telecommunications network to its addressed destination.

Data reporting and polling

JUE-85 Inmarsat C is programmed to automatically respond to a polling request from shore-based customers, as they may need to acquire information from vessels. The polling command instructs a station or group of stations to send a variety of onboard data immediately.

Unique features

- The JUE-85 is a highly reliable mobile satellite message communication system, having the ability to handle commercial operational and personal messages just as easily as distress and safety communications.

Flexible installation

The JRC JUE-85 Inmarsat C system has the same cable management philosophy resembling all other Inmarsat products that JRC is offering, allowing for an easy installation as only a single coax cable is used between Externally Mounted Equipment(EME) and Internally Mounted Equipment(IME). Both are very compact and can be easily installed on any size and type of vessel.
## JUE-85 Inmarsat C Specifications

**Technical Data Sheet**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RSU-004</strong></td>
<td>2.1 k (g)</td>
</tr>
</tbody>
</table>

**Physical Characteristics**

- **Supplied with**
  - **RSU-004**
  - **NQE-3154**
  - **JPA-227**
  - **NKG-800**
  - **NBD-843A**

### Internally Mounted Equipment (IME)

- **Model**
  - **NTF-781GM**

### Externally Mounted Equipment (EME)

- **Model**
  - **NAF-741GM**
    - **Pole Mounting Bracket** Included

### Data Terminal Equipment (DTE)

- **Model**
  - **NDZ-227**

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Quantity</strong></th>
<th><strong>Mass</strong></th>
<th><strong>Dimensions</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RSU-004</strong></td>
<td>1</td>
<td>2.1 k (g)</td>
<td>380 mm x 210 mm x 50 mm</td>
</tr>
<tr>
<td><strong>NTF-781GM</strong></td>
<td>1</td>
<td>1.3 k (g)</td>
<td>150 mm x 376 mm</td>
</tr>
<tr>
<td><strong>NAF-741GM</strong></td>
<td>1</td>
<td>1.5 k (g)</td>
<td>90 mm x 224 mm x 80 mm</td>
</tr>
<tr>
<td><strong>NDZ-227</strong></td>
<td>1</td>
<td>2.0 k (g)</td>
<td>282 mm x 132 mm</td>
</tr>
<tr>
<td><strong>NKG-800</strong></td>
<td>1</td>
<td>0.4 k (g)</td>
<td>286 mm x 358.4 mm</td>
</tr>
</tbody>
</table>

### Power Supply

- **Model**
  - **NBD-843A**

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Line Voltage</strong></th>
<th><strong>Output Voltage</strong></th>
<th><strong>Output Current</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NBD-843A</strong></td>
<td>AC 100/200V, DC 24V</td>
<td>DC 24V</td>
<td>6.9A max</td>
</tr>
</tbody>
</table>

**Power Supply (Continued)**

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Line Voltage Selection</strong></th>
<th><strong>Output Voltage</strong></th>
<th><strong>Output Current</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NBD-843A</strong></td>
<td>AC 90 to 126.5/180 to 253V</td>
<td>DC 24V</td>
<td>6.9A max</td>
</tr>
</tbody>
</table>

**Remote Distress Button**

- **Model**
  - **NQE-887C**

**Buzzer Box**

- **Model**
  - **NCE-6255A**

**Remote Data Terminal**

- **Model**
  - **NDZ-227**

**DTE Mounting Bracket**

- **Model**
  - **MPBP31721**

**Keyboard for Remote Data Terminal**

- **Model**
  - **NDF-369**

**Security Button**

- **Model**
  - **NQE-3154**

**Junction Box Extension**

- **Model**
  - **NQA-4281**

---

**Technical Specifications**

- **Power Supply DC 24V (+19.2V to +31.2V)**
- **Ambient Condition**
  - **EME**
    - Min: \(-35°C\)
    - Max: \(+55°C\)
  - **IME**
    - Min: \(-15°C\)
    - Max: \(+55°C\)
- **Relative Humidity**
  - **Max**
    - **EME**: 95%
    - **IME**: 80%
- **Wind**
  - **Max**
    - **EME**: 100 knots
- **Vibration**
  - As specified by Inmarsat

**Memory Backup**

- **Minimum**: 24 hours

---

**Configuration**

- **Data Terminal Equipment**
  - **RSU-004**
  - **NQE-3154**
- **Printer**
  - **NKG-800**
- **Power Supply**
  - **NBD-843A**
- **Remote Data Terminal**
  - **NDZ-227**
- **DTE Mounting Bracket**
  - **MPBP31721**
- **Keyboard**
  - **NDF-369**
- **Security Button**
  - **NQE-3154**
- **Junction Box Extension**
  - **NQA-4281**

---

**Output**

- **Power Supply DC 24V, 6.9A max**

---

**Contact**

- **Japan Radio Co., Ltd.**
- **Head Office**: 1-1-14 Koshibo, Shinagawa-ku, Tokyo, 141-8543, Japan
- **Telephone**: +81-3-5438-8181
- **Fax**: +81-3-5438-7804

---

**Inmarsat C for GMDSS**

- **High reliability system**
- **Compact design**
- **Single coax installation**
- **Optional Ship Security Alert System (SSAS)**
- **LRIT integrated as standard**

---

**JRC introduces a dedicated two-way Inmarsat C global data communication system**
# JUE-85 Inmarsat C

## – specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>Inmarsat C Mobile Earth Station</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>JUE-85</td>
</tr>
</tbody>
</table>
- Inmarsat type approved | ✓ |
- Class of Inmarsat C MES | Class 2 |

**Internally Mounted Equipment (IME) and Externally Mounted Equipment (EME)**

<table>
<thead>
<tr>
<th>Model – IME</th>
<th>NTF-781GM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model – EME</td>
<td>NAF-741GM (including pole mounting bracket)</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td></td>
</tr>
<tr>
<td>TX</td>
<td>1626.5 MHz - 1646.5 MHz</td>
</tr>
<tr>
<td>RX</td>
<td>1530.0 MHz - 1545.0 MHz</td>
</tr>
<tr>
<td>GPS</td>
<td>1575.2 MHz ± 1 MHz</td>
</tr>
<tr>
<td><strong>Channel spacing</strong></td>
<td>5 KHz</td>
</tr>
<tr>
<td><strong>G/T</strong></td>
<td>–23.7 dB/K minimum</td>
</tr>
<tr>
<td><strong>E.I.R.P.</strong></td>
<td>within 14 ± 2 dBW (at 5° angle)</td>
</tr>
<tr>
<td><strong>Modulation</strong></td>
<td>TX and RX: 1200 symbols/sec BPSK</td>
</tr>
<tr>
<td><strong>Data rate</strong></td>
<td>TX and RX: 600bps</td>
</tr>
<tr>
<td><strong>Antenna</strong></td>
<td>Type: helical, pattern: hemispherical, polarisation: right hand circular</td>
</tr>
<tr>
<td><strong>Power supply voltage</strong></td>
<td>DC 24V (+19.2V to +31.2V)</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Transmission: 100W, standby: 15W</td>
</tr>
<tr>
<td><strong>Ambient condition</strong></td>
<td></td>
</tr>
<tr>
<td>EME</td>
<td>–35°C to +55°C</td>
</tr>
<tr>
<td>IME</td>
<td>–15°C to +55°C</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>–40°C to +80°C</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>40°C up to 95%</td>
</tr>
<tr>
<td><strong>Icing</strong></td>
<td>Up to 25mm (IME)</td>
</tr>
<tr>
<td><strong>Precipitation</strong></td>
<td>100mm/hour (IME)</td>
</tr>
<tr>
<td><strong>Wind</strong></td>
<td>Up to 100 knots</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>As specified by Inmarsat</td>
</tr>
</tbody>
</table>

**Data Terminal Equipment (DTE)**

| **Model** | NDZ-227 |
| **Memory backup** | 24 hours or more |
| **Power supply voltage** | DC 24V |
| **Power consumption** | 0.9A |

**Printer**

| **Model** | NKG-800 |
| **Line interface** | Parallel |
| **Power supply** | DC 24V (+19.2V to +31.2V) |
| **Power consumption** | Approx. 35W |

**Power supply**

| **Model** | NBD-843A |
| **Line voltage** | AC 100/200V, DC 24V |
| **Line voltage selection** | AC 90 to 126.5/180 to 253V |
| **Output** | DC 19.2 to 31.2V |
| **DC 24V, 6.9A max** | |

**Optional items**

| Remote distress button | NQE-887C (for IMO vessels: 1 unit is required) |
| Buzzer box | NCE-6255A |
| Remote data terminal | NDZ-227 |
| DTE Mounting Bracket | MPBP31721 |
| Keyboard for remote data terminal | NDF-369 |
| Security button | NQE-3154 |
| Junction box extension | NQA-4281 |

---

*Specifications may be subject to change without notice.*

---

**Guangzhou Faraway Marine Communication Co., Ltd.**

Add.: 1st Floor, No.47 Eastern Great Street, Shaxu, Shiqiao, Panyu, Guangzhou, China

Tel.: 0086-20-34615860

Fax.: 0086-20-34629455

http://www.yymarine.com

E-mail: gzfaraway@163.com

---

**Japan Radio Co., Ltd.**

**Main Office:** Fujisawa bldg. 30-16, Ogikubo 4-chome
Suginami-ku, Tokyo 167-8540, Japan

**Telephone:** +81-3-8832-1816

**Facsimile:** +81-3-8832-1845

**Overseas Branches:** Seattle, Amsterdam, Athens, Manila

**Liaison Offices:** Taipei, Jakarta, Singapore, Hanoi, Shanghai, Hamburg, New York

---

© 2011 JRC. All Rights Reserved.