**JUE-60GX Dimensions**

- **ADE** NTG-428
- **BDE** NTF-329
- Instruction manual: 7ZPSC0584
- Installation manual: 7ZPSC0586
- Quick reference guide: 7ZPSC0587
- CD-ROM: 7ZPSC0589
- Supplied parts for ADE installation: MPXFP35369
- Supplied parts for BDE installation: 7ZXSC6002

**JUE-60GX Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>JUE-60GX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand type approved</td>
<td>J Series RS-30</td>
</tr>
<tr>
<td>Type</td>
<td>J Series RS-30</td>
</tr>
<tr>
<td>Frequency Transmitter: 29.0 GHz to 30.0 GHz, Receiver: 19.2 GHz to 20.2 GHz</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>100 V to 240 VAC</td>
</tr>
<tr>
<td>Consumption</td>
<td>Less than max 300 W</td>
</tr>
<tr>
<td>Ship’s motion</td>
<td>Roll: ±25°/6 sec, Pitch: ±15°/6 sec, Yaw: ±8°/6 sec, Turning Rate: 10°/sec</td>
</tr>
<tr>
<td>E.I.R.P</td>
<td>±25°/6 sec</td>
</tr>
<tr>
<td>G/T</td>
<td>15 dBK</td>
</tr>
</tbody>
</table>

**Ambient conditions**

- **Operating temperature**:
  - ADE: -25°C to +55°C
  - BDE: -15°C to +55°C

- **Storage temperature**:
  - ADE/BDE: -40°C to +80°C

- **IP protection rate**:
  - ADE: IP56 substantially
  - BDE: IP22

- **Relative humidity**:
  - ADE/BDE: +40°C, 93%

**Option**

- Coaxial cable: CFQ-3923
- Instruction manual: 7ZPSC0585
- Installation manual: 7ZPSC0586
- Quick reference guide: 7ZPSC0587

**Specifications**

- Anti-vibration resistance design by rigid structure
- Lightweight design by aluminized of the antenna frame
- Adopt low attenuation and low reflection radome by the multi layer honeycomb structure
- Easy connection to the JRC equipment by the JRC LAN
- Remote Maintenance System (RMS) adaptable

**in the box**

- ADE:
  - NTG-428 MASS 46 kg
- BDE:
  - NTF-329 MASS 6.5 kg
**JUE-60GX Features**

**Global Xpress, Fast, Faster, Fastest**

JRC is one of the world’s largest established companies in the field of marine electronics, and a pioneer in global mobile L-band satellite communications as Inmarsat’s longest-serving manufacturing partner. From the beginnings of the maritime satellite communications era, JRC has invested heavily in research and development year-on-year. This investment will continue as we offer new solutions to the maritime industry through a new design of compact JUE-60GX Ka-band terminal and antennas delivering enhanced connectivity speeds in Mbps in response to user demands.

**Unique antenna design, Small, Lightweight, Durable**

The design of a lightweight but ultra-strong radome for the Ka-band environment has been a particular challenge. JRC engineers used a layer sandwich Fiber Reinforced Plastic (FRP) with a special honeycomb structure for the core of just a few millimeters. The honeycomb structure gives the radome high strength and is extremely lightweight. The radome is dipped in a bath of resin and shaped in an oven, so as to achieve a curved structure without excessive mechanical force or heating.

Installation is quick and easy. With such a lightweight antenna the vessel’s downtime is minimal; no crane necessary for installation, and the onboard setup will be just as simple as it is today for FleetBroadband.

**Seamless integration**

Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provides for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain-and-ofﬁcers are directly accessible from our Multi Function Display (MFD).

**Redundancy**

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience of FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unprecedented reliability even with heavy precipitation and antenna blockage.

Redundancy only applies in the overlap regions between GX I-5 satellites and FB I-4 satellites. Data transmission speed through the JUE-251 or JUE-501 will be at normal FB rates.

**Fleet Xpress system**

GX and JRC, in the Cloud

JRC is developing its first and very own ‘shared space’ for our users, aimed at economy, safety and welfare. Global Xpress will be a central part of our ‘JMarine Cloud’ service to enable advanced applications. When a reliable data communication system is installed, the crew benefits but the ship-owner is the real winner. Real time data makes it possible to plan routes more effectively, avoid bad weather and schedule arrival time more accurately, saving valuable fuel. It can also ensure that the onboard charts are kept up to date in real time.

**With secure connections the ship-owner can even keep an accurate track of his fleet’s movements and fuel consumption and advise the captain where necessary in order to save cost, improve safety of the ship and care of cargo and crew. Onboard equipment can monitor installed devices remotely, prevent faults and advise possible maintenance issues so as to be ready at the quay with the correct spares for the ship’s arrival in port.**

**Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provide for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).**

**System**

**NMC**

**Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provide for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).**

**Features**

**Redundancy**

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience of FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unprecedented reliability even with heavy precipitation and antenna blockage.

**Unique antenna design, Small, Lightweight, Durable**

The design of a lightweight but ultra-strong radome for the Ka-band environment has been a particular challenge. JRC engineers used a layer sandwich Fiber Reinforced Plastic (FRP) with a special honeycomb structure for the core of just a few millimeters. The honeycomb structure gives the radome high strength and is extremely lightweight. The radome is dipped in a bath of resin and shaped in an oven, so as to achieve a curved structure without excessive mechanical force or heating.

Installation is quick and easy. With such a lightweight antenna the vessel’s downtime is minimal; no crane necessary for installation, and the onboard setup will be just as simple as it is today for FleetBroadband.

**Seamless integration**

Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provides for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain-and-ofﬁcers are directly accessible from our Multi Function Display (MFD).

**Redundancy**

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience of FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unprecedented reliability even with heavy precipitation and antenna blockage.

Redundancy only applies in the overlap regions between GX I-5 satellites and FB I-4 satellites. Data transmission speed through the JUE-251 or JUE-501 will be at normal FB rates.

**Fleet Xpress system**

GX and JRC, in the Cloud

JRC is developing its first and very own ‘shared space’ for our users, aimed at economy, safety and welfare. Global Xpress will be a central part of our ‘JMarine Cloud’ service to enable advanced applications. When a reliable data communication system is installed, the crew benefits but the ship-owner is the real winner. Real time data makes it possible to plan routes more effectively, avoid bad weather and schedule arrival time more accurately, saving valuable fuel. It can also ensure that the onboard charts are kept up to date in real time.

**With secure connections the ship-owner can even keep an accurate track of his fleet’s movements and fuel consumption and advise the captain where necessary in order to save cost, improve safety of the ship and care of cargo and crew. Onboard equipment can monitor installed devices remotely, prevent faults and advise possible maintenance issues so as to be ready at the quay with the correct spares for the ship’s arrival in port.**

**Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provide for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).**

**System**

**NMC**

**Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provide for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).**

**Features**

**Redundancy**

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience of FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unprecedented reliability even with heavy precipitation and antenna blockage.

**Unique antenna design, Small, Lightweight, Durable**

The design of a lightweight but ultra-strong radome for the Ka-band environment has been a particular challenge. JRC engineers used a layer sandwich Fiber Reinforced Plastic (FRP) with a special honeycomb structure for the core of just a few millimeters. The honeycomb structure gives the radome high strength and is extremely lightweight. The radome is dipped in a bath of resin and shaped in an oven, so as to achieve a curved structure without excessive mechanical force or heating.

Installation is quick and easy. With such a lightweight antenna the vessel’s downtime is minimal; no crane necessary for installation, and the onboard setup will be just as simple as it is today for FleetBroadband.

**Seamless integration**

Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provides for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain-and-ofﬁcers are directly accessible from our Multi Function Display (MFD).

**Redundancy**

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience of FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unprecedented reliability even with heavy precipitation and antenna blockage.

Redundancy only applies in the overlap regions between GX I-5 satellites and FB I-4 satellites. Data transmission speed through the JUE-251 or JUE-501 will be at normal FB rates.

**Fleet Xpress system**

GX and JRC, in the Cloud

JRC is developing its first and very own ‘shared space’ for our users, aimed at economy, safety and welfare. Global Xpress will be a central part of our ‘JMarine Cloud’ service to enable advanced applications. When a reliable data communication system is installed, the crew benefits but the ship-owner is the real winner. Real time data makes it possible to plan routes more effectively, avoid bad weather and schedule arrival time more accurately, saving valuable fuel. It can also ensure that the onboard charts are kept up to date in real time.

**With secure connections the ship-owner can even keep an accurate track of his fleet’s movements and fuel consumption and advise the captain where necessary in order to save cost, improve safety of the ship and care of cargo and crew. Onboard equipment can monitor installed devices remotely, prevent faults and advise possible maintenance issues so as to be ready at the quay with the correct spares for the ship’s arrival in port.**

**Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provide for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).**

**System**

**NMC**

**Dedicated high-speed communications together with JRC’s latest generation onboard navigation equipment provide for seamless integration of support and applications, superb and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).**

**Features**

**Redundancy**

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience of FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unprecedented reliability even with heavy precipitation and antenna blockage.

**Unique antenna design, Small, Lightweight, Durable**

The design of a lightweight but ultra-strong radome for the Ka-band environment has been a particular challenge. JRC engineers used a layer sandwich Fiber Reinforced Plastic (FRP) with a special honeycomb structure for the core of just a few millimeters. The honeycomb structure gives the radome high strength and is extremely lightweight. The radome is dipped in a bath of resin and shaped in an oven, so as to achieve a curved structure without excessive mechanical force or heating.

Installation is quick and easy. With such a lightweight antenna the vessel’s downtime is minimal; no crane necessary for installation, and the onboard setup will be just as simple as it is today for FleetBroadband.
**JUE-60GX**

**Features**

- **Global Xpress, Fast, Faster, Fastest**
  JRC is one of the world’s longest-established companies in the field of marine electronics, and a pioneer in global mobile L-band satellite communications as Inmarsat's longest-serving manufacturing partner. From the beginnings of the maritime satellite communications era, JRC has invested heavily in research and development year-on-year. This investment will continue as we offer creative solutions to the marine industry, through a new design of compact JUE-60GX Ka-band terminal and antennas delivering enhanced connectivity speeds in Mbps in response to user demands.

- **Seamless integration**
  Delivered high-speed communications together with JRC’s newest generation onboard navigation equipment for seamless integration of support and applications, superfast and anywhere between 70 degrees North and South. Functions for captain and officers are directly accessible from our Multi Function Display (MFD).

- **Redundancy**
  The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience Fe FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational efficacy to the next level providing unsurpassed reliability, even with heavy precipitation and antenna blockage.

- **Unique antenna design, Small, Lightweight, Durable**
  JRC’s engineers have designed a lightweight but ultra strong radome for the Ka-band environment has been a particular challenge. JRC engineers used a 3 layer sandwich Fiber Reinforced Plastic (FRP) with a special resin-honeycomb structure for the core of just a few millimeters. The honeycomb structure gives the radome high strength and is extremely lightweight. The radome is dipped in a bath of resin and shaped in an oven, so as to achieve a curved structure without excessive mechanical force or heating. Installation is quick and easy. With such a lightweight antenna the vessel’s downstream is minimal; no crane necessary for installation, and the onboard setup will be just as simple as it is today for FleetBroadband.

**Fleet Xpress system**

- **GX and JRC, in the Cloud**
  **JUE-60GX**
  JRC is developing its first and very own ‘shared space’ for our users, aimed at economy, safety and welfare. Global Xpress will be a central part of our JMarine Cloud service to enable advanced applications. When a reliable data communication system is installed, the crew benefits but the ship-owner is the real winner. Real time data makes it possible to plan routes more effectively, avoid bad weather and schedule arrival time more accurately, saving valuable fuel. It can also ensure that the onboard charts are kept up to date in real time. The new GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience FleetBroadband family JUE-251 or JUE-501 and a Network Service Device) will take your operational efficacy to the next level providing unsurpassed reliability, even with heavy precipitation and antenna blockage.

- **JRC Remote Maintenance System (RMS)**
  **JUE-60GX** supports JRC proprietary Remote Maintenance System (RMS) as a standard feature. The operating status of communication equipment and navigation equipment onboard can be checked remotely via the Inmarsat satellite communications system.
**JUE-60GX**

**Features**

Global Xpress, Fast, Faster, Fastest

JRC is one of the world’s largest established companies in the field of marine electronics, and a pioneer in global mobile L-band satellite communications as Inmarsat’s longest-serving manufacturing partner. From the beginnings of the maritime satellite communications era, JRC has invested heavily in research and development year-on-year. This investment will continue as we offer creative solutions to the marine industry through a new design of compact JUE-60GX Ka-band terminal and antennas delivering enhanced connectivity speeds in Mbps in response to user demands.

Unique antenna design, Small, Lightweight, Durable

The design of a lightweight but ultra-strong radome for the Ka-band environment has been a particular challenge. JRC engineers used a 3-layer sandwich Fiber Reinforced Plastic (FRP) with a special resin-honeycomb structure for the core of just a few millimeters. The honeycomb structure gives the radome high strength and is extremely lightweight. The radome is dipped in a bath of resin and shaped in an oven, so as to achieve a curved structure without excessive mechanical force or heating.

**JUE-60GX**

**Service**

Seamless integration

The protective radome is made using a process known as thermoplastic radome technology (TPT) that enables a lightweight radome to be produced with a surface finish and superior weather resistance even with heavy precipitation and antenna blockage.

**JUE-60GX**

**System**

**Fleet Xpress system**

GX and JRC, in the Cloud

JRC is developing its first and very own ‘shared space’ for our users, aimed at economy, safety and welfare. Global Xpress will be a central part of our JMarine Cloud™ service to enable advanced applications. When a reliable data communication system is installed, the crew benefits but the ship-owner is the real winner. Real time data makes it possible to plan routes more effectively, avoid bad weather and schedule arrival time more accurately, saving valuable fuel. It can also ensure that the onboard charts are kept up to date in real time.

With secure connections the ship-owner can even keep an accurate track of his fleet’s movements and fuel consumption and advise the captain where necessary in order to save cost, improve safety of the ship and care of cargo and crew. Onboard equipment can monitor installed devices remotely, prevent faults and advise possible maintenance issues so as to be ready at the quay with the correct spares for the ship's arrival in port. Onboard officers are directly accessible from our Multi Function Display (MFD).

Redundancy

The new ultrafast GX service is designed for reliability as well as speed. Inmarsat’s Fleet Xpress hybrid service (Ka-band Global Xpress JUE-60GX backed by L-band resilience FleetBroadband family, JUE-251 or JUE-501 and a Network Service Device) will take your operational reliability to the next level, providing unsurpassed reliability, even with heavy precipitation and antenna blockage.

Applications suite

Chart update

Heavy info

Weather info

Monitoring

Software update

Anti-virus update

Wave data

GX terminal and antenna

Remote maintenance equipment

AC100〜240V

DC24V

EXTERNAL power

REMOTE maintenance equipment

IP telephone

PC Wi-Fi AP

MFD

TPV

IP terminal

Internal power

Remote maintenance equipment

DC24V

REMOTE maintenance equipment

IP terminal

AC100/220V

Coaxial

Switching hub

Cable RX

Coaxial cable

GX terminal and antenna

Remote maintenance equipment

AC100〜240V

DC24V

EXTERNAL power

REMOTE maintenance equipment

IP telephone

PC Wi-Fi AP

MFD

TPV

IP terminal

Internal power
Model JUE-60GX

<table>
<thead>
<tr>
<th>Model</th>
<th>JUE-60GX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Inmarsat</td>
</tr>
<tr>
<td>Type</td>
<td>Class 60</td>
</tr>
<tr>
<td>Frequency Transmit</td>
<td>29.0〜30.0GHz</td>
</tr>
<tr>
<td>Frequency Receive</td>
<td>19.2〜20.2GHz</td>
</tr>
<tr>
<td>Voice</td>
<td>Supported by NSD</td>
</tr>
<tr>
<td>Data</td>
<td>Supported by NSD</td>
</tr>
<tr>
<td>Antenna</td>
<td>65cm Parabolic antenna, 3 axis control system, FRP enclosure</td>
</tr>
<tr>
<td>Power</td>
<td>100〜240VAC</td>
</tr>
<tr>
<td>Consumption</td>
<td>Less than max 300W</td>
</tr>
<tr>
<td>Ship’s motion</td>
<td>Roll: ±25°/6 sec, Pitch: ±15°/6 sec, Yaw: ±8°/6 sec, Turning Rate: 10°/sec</td>
</tr>
<tr>
<td>E.I.R.P</td>
<td>+49dBW</td>
</tr>
<tr>
<td>G/T</td>
<td>15dBK</td>
</tr>
</tbody>
</table>

Ambient conditions
- Operating temperature: ADE/BDE -25 to +55℃, ADE -15 to +55℃
- Storage temperature: ADE/BDE -40 to +80℃
- IP protection rate: ADE IP56 substantially, BDE IP22
- Relative humidity: ADE/BDE +40℃, 93%

In the box
- ADE NTG-428
- BDE NTF-329
- Instruction manual 7ZPSC0585
- Installation manual 7ZPSC0586
- Quick reference guide 7ZPSC0587
- CD-ROM 7ZPSC0602
- Supplied parts for ADE installation MPXP35369
- Supplied parts for BDE installation 7ZXSC6002

Option
- Coaxial cable CFQ-3923
- Instruction manual 7ZPSC0585
- Installation manual 7ZPSC0586
- Quick reference guide 7ZPSC0587
- Installation manual 7ZPSC0587
- Instruction manual 7ZPSC0589

JRC Japan Radio Co., Ltd.

- Anti-vibration resistance design by rigid structure
- Lightweight design by aluminized of the antenna frame
- Adopt low attenuation and low reflection radome by the multi layer honeycomb structure
- Easy connection to the JRC equipment by the JRC LAN
- Remote Maintenance System (RMS) adaptable

| Specifications may be subject to change without notice. | For further information, contact |

Japan Radio Co., Ltd.

Photo: Global Xpress

Ultra high-speed data communication by the small size / lightweight antenna
### JUE-60GX Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>JUE-60GX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>JUE-60GX</td>
</tr>
<tr>
<td>Frequency Transmit</td>
<td>29.0〜30.0GHz</td>
</tr>
<tr>
<td>Frequency Receive</td>
<td>19.2〜20.2GHz</td>
</tr>
<tr>
<td>Power</td>
<td>100〜240VAC</td>
</tr>
<tr>
<td>Consumption</td>
<td>Less than max 300W</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>ADE: -25 to +55℃, BDE: -15 to +55℃</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>ADE/BDE: -40 to +80℃</td>
</tr>
<tr>
<td>IP protection rate</td>
<td>ADE: IP56 substantially, BDE: IP22</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>ADE/BDE: +40℃, 93%</td>
</tr>
<tr>
<td>Option</td>
<td>CFQ-3502</td>
</tr>
<tr>
<td>Installation manual</td>
<td>7ZPSC0585</td>
</tr>
<tr>
<td>Quick reference guide</td>
<td>7ZPSC0587</td>
</tr>
<tr>
<td>Supplier parts for ADE installation</td>
<td>MPXP35369</td>
</tr>
<tr>
<td>Supplier parts for BDE installation</td>
<td>7ZXSC6002</td>
</tr>
</tbody>
</table>

### In the box

- ADE
  - NTG-428
  - Instruction manual
  - Installation manual
  - Quick reference guide
  - CD-ROM
  - Supplied parts for ADE installation: MPXP35369

- BDE
  - NTF-329
  - Instruction manual
  - Installation manual
  - Quick reference guide
  - Supplied parts for BDE installation: 7ZXSC6002

### Option

- Coaxial cable: CFQ-3923
- Instruction manual: 7ZPSC0585
- Installation manual: 7ZPSC0587
- Quick reference guide: 7ZPSC0589
- Remote power switch

---

**Anti-vibration resistance design by rigid structure**

**Lightweight design by aluminized of the antenna frame**

**Adopt low attenuation and low reflection radome by the multi layer honeycomb structure**

**Easy connection to the JRC equipment by the JRC LAN**

**Remote Maintenance System (RMS) adaptable**

---

**Global Xpress**

- **ultra high-speed data communication by the small size / lightweight antenna**

---

**Anti-vibration resistance design by rigid structure**

**Lightweight design by aluminized of the antenna frame**

**Adopt low attenuation and low reflection radome by the multi layer honeycomb structure**

**Easy connection to the JRC equipment by the JRC LAN**

**Remote Maintenance System (RMS) adaptable**