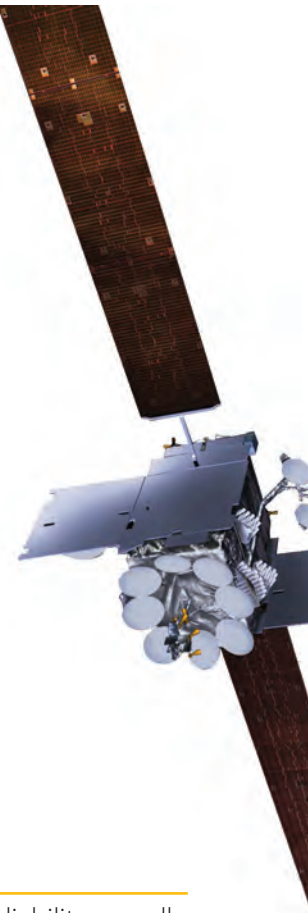
JUE-60GX
Global Xpress

- 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**

JRC Japan Radio Co., Ltd.

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 so as to offer creative solutions to the marine industry, through a new design of compact JUE-60GX Ka-band terminal and antenna delivering enhanced connectivity speeds in Mbps in response to user demands.

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 efficiency to the next level, providing unsurpassed reliability, even with heavy precipitation and antenna blockage*[1].

* 1 : existing JUE-251 or JUE-501 can be used as part of the GX package, but cannot be used separately unless disconnected from the GX terminal. 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.

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.

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 FreetBroadband.

JUE-60GX Service

Seamless integration

Dedicated high speed communications together with JRC newest generation onboard navigation equipment provides 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).

GX and JRC, in the Cloud

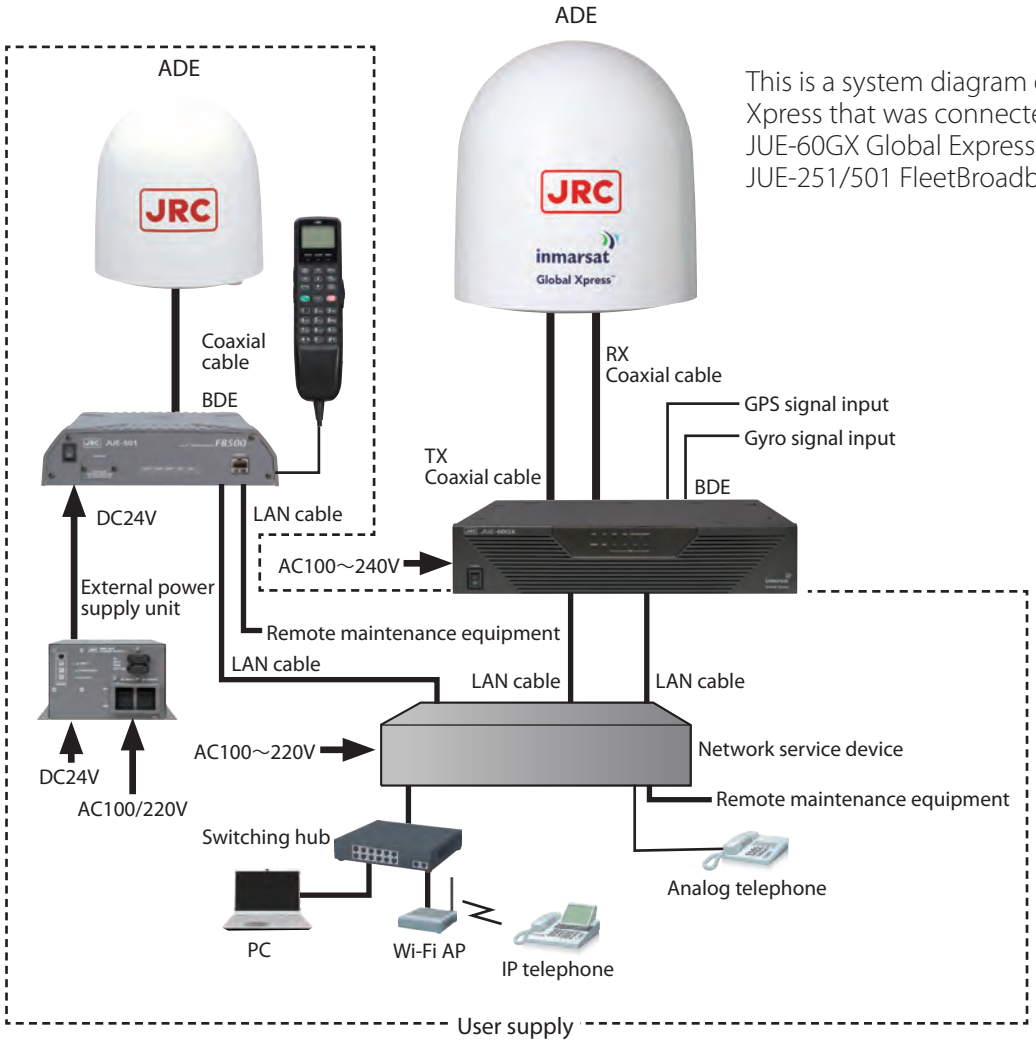
JRC is developing its first and very own 'shared space' for our users, aimed at economy, safety and welfare. Global Xpress will be a central part of our jMarine Cloud™ service to enable advanced applications. When a reliable data communication system is installed, the crew benefits but the ship-owner 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 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. Crew applications with high-speed connectivity for relaxation and for communications with friends and family are available through GX. All from the cloud.

tion by the small size / lightweight antenna

JUE-60GX System

Fleet Xpress system



This is a system diagram of Fleet Xpress that was connected to JUE-60GX Global Express and JUE-251/501 FleetBroadband.

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.

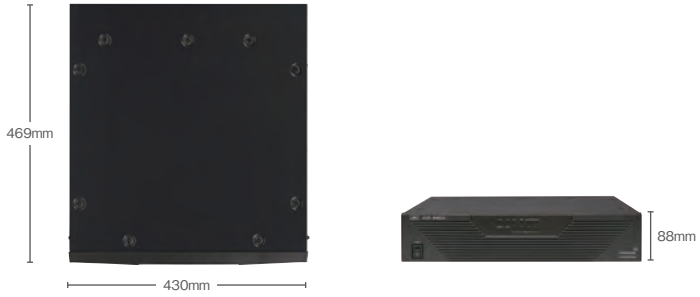
JUE-60GX
Dimensions

ADE RoHS

NTG-428 MASS 46 kg

BDE RoHS

NTF-329 MASS 6.5 kg



In the box

· ADE	NTG-428
· BDE	NTF-329
· Instruction manual	7ZPSC0584
· Installation manual	7ZPSC0586
· Quick reference guide	7ZPSC0588
· 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	7ZPSC0587
· Quick reference guide	7ZPSC0589

JUE-60GX
Specifications

Model	JUE-60GX
Inmarsat type approved	○ (Class 60)
RoHS	○
Frequency	Transmit: 29.0～30.0GHz, Receive: 19.2～20.2GHz
Voice	Supported by NSD
Data	Supported by NSD
Antenna	65cm Parabolic antenna, 3 axis control system, FRP enclosure
Power	100～240VAC
Consumption	Less than max 300W
Ship's motion	Roll: ±25°/6 sec, Pitch: ±15°/6 sec, Yaw: ±8°/6 sec, Turning Rate: 10°/sec
E.I.R.P.	+49dBW
G/T	15dBK
Ambient conditions	Operating temperature: ADE −25 to +55°C, BDE −15 to +55°C Storage temperature: ADE/BDE −40 to +80°C IP protection rate: ADE IP56 substantially, BDE IP22 Relative humidity: ADE/BDE +40°C, 93%
IP handset	Supported by NSD
Remote telephone	Supported by NSD
LAN ports (100BASE-T)	BDE 3 ports (1 port: JRC LAN, 2 ports: NSD LAN)
External GPS signal input	BDE 2 ports (1 port: IEC 61162-1, 1 port: GPS signal from equipment via JRC LAN)
Gyro signal input	BDE 2 ports (1 port: IEC 61162-1, 1 port: Gyro signal from equipment via JRC LAN)
External input/output	Remote power switch

• Specifications may be subject to change without notice.

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