Supported sailing

inmarsat
Global Xpress™

FleetXpress solutions

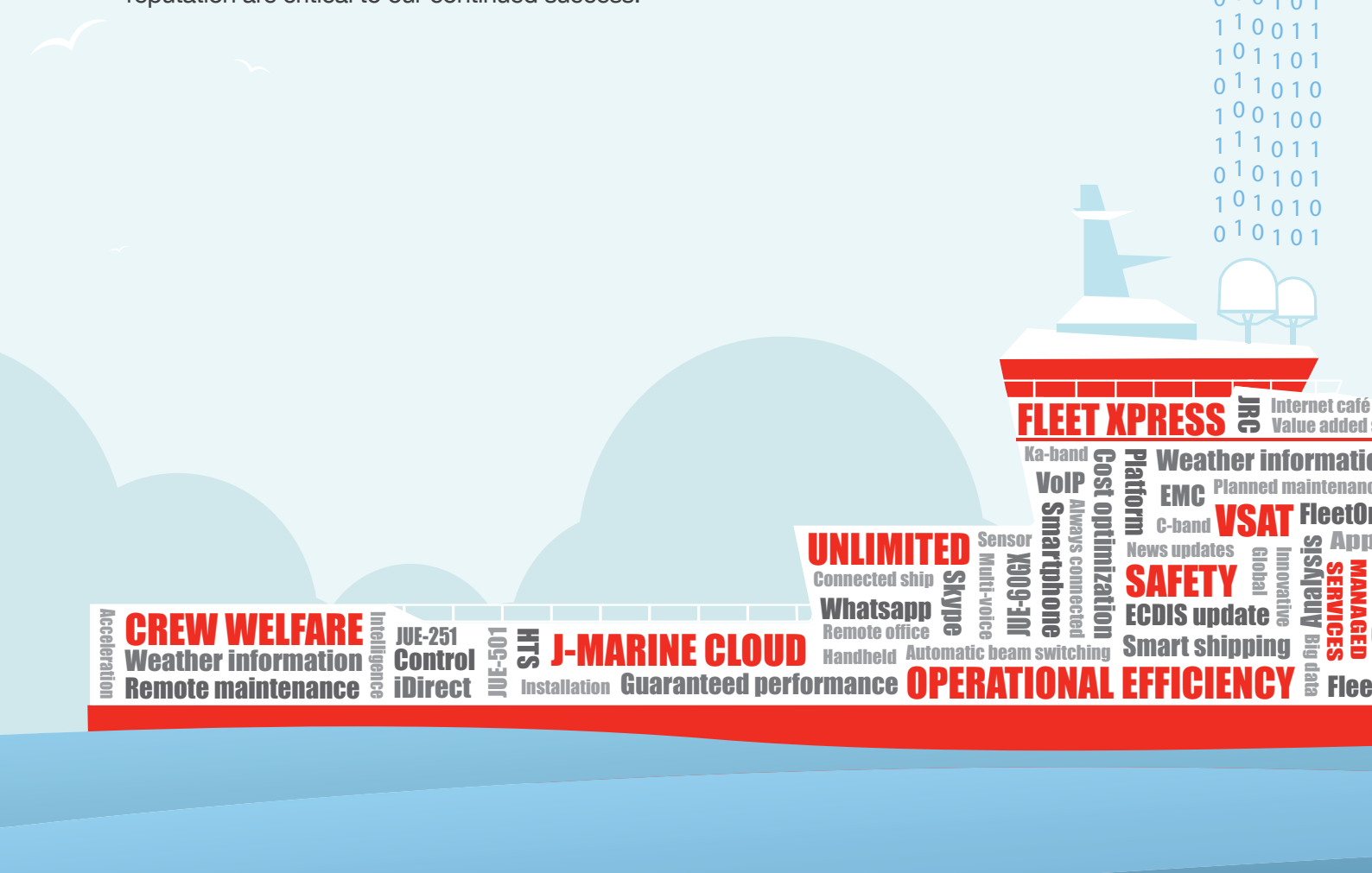Applications driven by proven technology

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Omotenashi to our customers

The Japanese concept of Omotenashi comes from the heart. JRC translates this unique Japanese mindset of service and hospitality in many ways, one of which is in how we develop products ensuring total value for users. The product needs to function as a solution, or serve a specific purpose for our customers. And this is exactly how we started development of our new JUE-60GX Inmarsat Global Xpress communications product: diverse and flexible, applicable and relevant to different markets on different types of vessels, working hard in the background offering greatly enhanced levels of communications speed, quality and service to users, without them even noticing. But still retaining our enviable reputation for manufacturing quality, product reliability and customer support.

A rich history

Established in 1915, JRC has built and maintained a hard-earned reputation in the marine business for reliable and innovative engineering backed up by an extensive global customer support network. Our products are valued in the market because they provide modern affordable services which work dependably. JRC's engineering standards are matched by the rigour of our Quality Assurance process, our brand and our reputation are critical to our continued success.

FLEET XPRESS
JRC
Internet café
Value added s
Ka-band
Cost optimization
Platform
Weather informatio
VoIP
EMC
Planned maintenanc
C-band
VSAT
FleetOn
Smartphone
Always connected
News updates
App
UNLIMITED
Sensor
Multi-voice
JUE-60GX
Global
Innovative
Analysis
SAFETY
Connected ship
Skype
MANAGED
SERVICES
Whatsapp
ECDIS update
Remote office
Big data
CREW WELFARE
Intelligence
JUE-251
Control
JUE-501
HTS
J-MARINE CLOUD
Handheld
Automatic beam switching
Smart shipping
Flee
Weather information
iDirect
Installation
Guaranteed performance
OPERATIONAL EFFICIENCY
Acceleration
Remote maintenance

FleetXpress,
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.
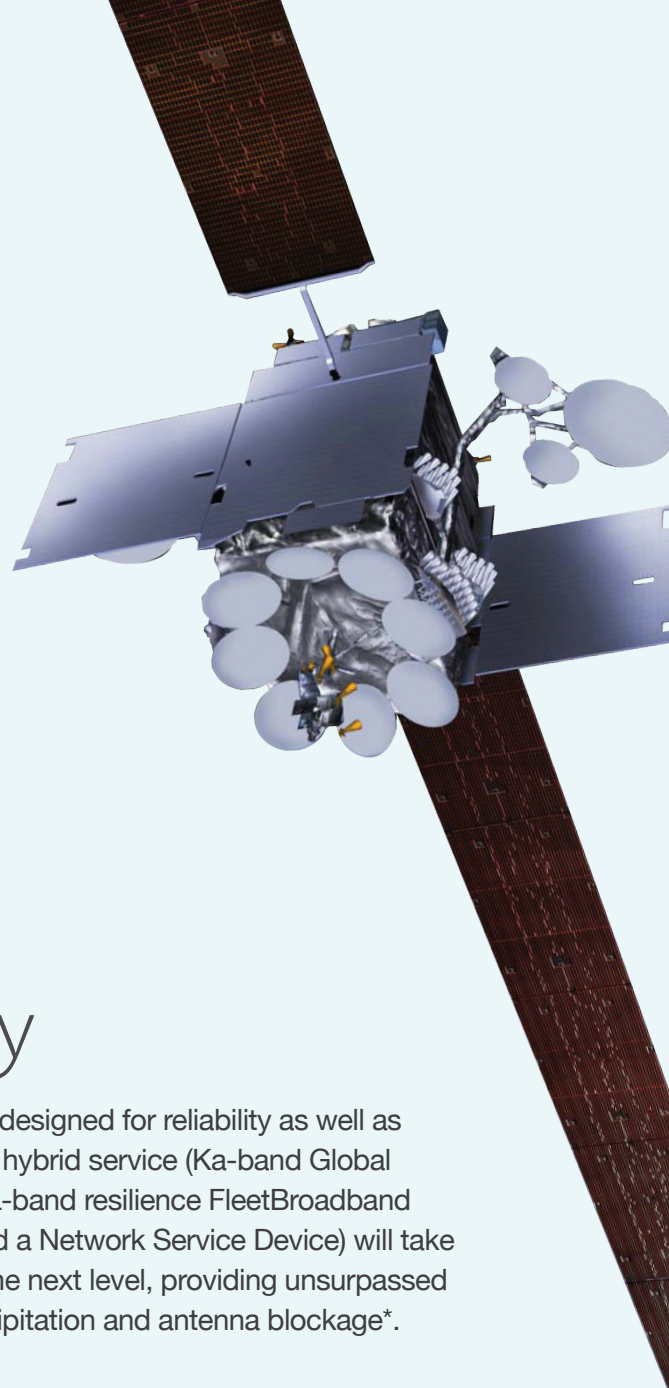
Redundancy

The new ultrafast FX 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*.

*Note: existing JUE-251 or JUE-501 can be used as part of the FX 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.

solutions
Bandwith
ICT support
ALPHAEYE
One-stop-shop
Control
GMDSS
Inmarsat
BYOD
Engine monitoring
Controlled cost
Machine to machine
t management

# 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 Fibre 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 FleetBroadband.

Keeping on track

Our experience and expertise gained through JRC's rich heritage of delivering successful Inmarsat products served us well in the design of our new, highly stable antenna. By keeping as much weight on and around the base plate, the antenna center of gravity remains low which greatly assists in stable communications under harsh operating conditions.

Monocoque structure:	**Rigid**
Low center of gravity:	**Stable**
Demper free design:	**No vibration**
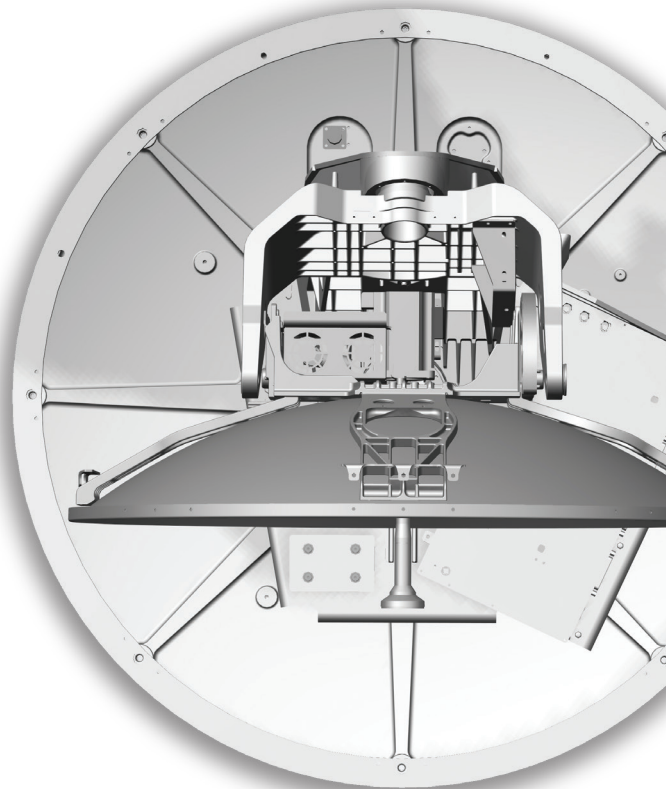
Interfacing

JRC's below deck unit providing intuitive setup by web browser GUI and offering easy hardware interfacing. Installation arrangements are made by dual cabling for RX/TX. Depending on antenna distance with a maximum of 60 meter, JRC can provide various high-quality cables sets. Besides standard NSD (also compatible for futured Digital Base Platform) interfacing, JRC has provided one extra RJ-45 connector for EXT LAN connection to the vessels' VDR and/or Inmarsat C to enable JRC's unique Remote Maintenance System (RMS).

High-speed communication is made possible between antenna and below deck unit with JRC's unique Wi-Fi technology.
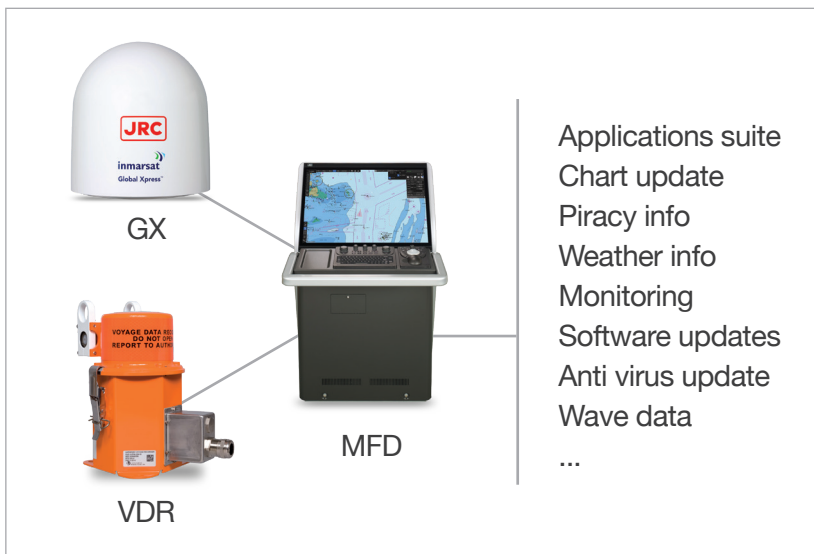
- Design compatible for 19-inch rack
- Available with rack & desk mount type
- Self-diagnostic function

- JRC Remote Maintenance System
- Simple view with LED indication
- Intuitive web browser interface

Fit, and forget

JRC designed the terminal to be flexible. The JRC original design terminal uses web-based operation similar to our FleetBroadband solution, and is designed to be mounted in a 19-inch (communication) rack. As a standard feature, the JRC Global Xpress solution supports our proprietary Remote Maintenance System (RMS), one of the core elements of JRC's customer operations support philosophy.

Smart shipping applications

GX

VDR

MFD

Applications suite
Chart update
Piracy info
Weather info
Monitoring
Software updates
Anti virus update
Wave data
...

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).

FX and JRC, in the cloud
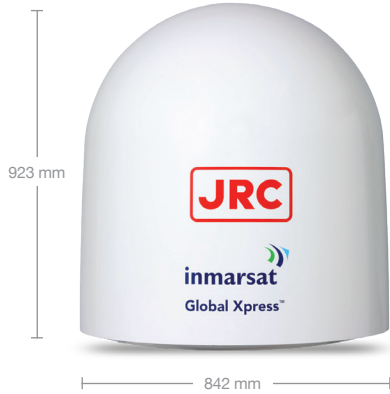
J-MARINE **CLOUD**

JRC is developing its first and very own 'shared space' for our users, aimed at economy, safety and welfare. FleetXpress 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.

J-MARINE CLOUD

Weather info

Sea current info

Ship info

Coastal info

Area info
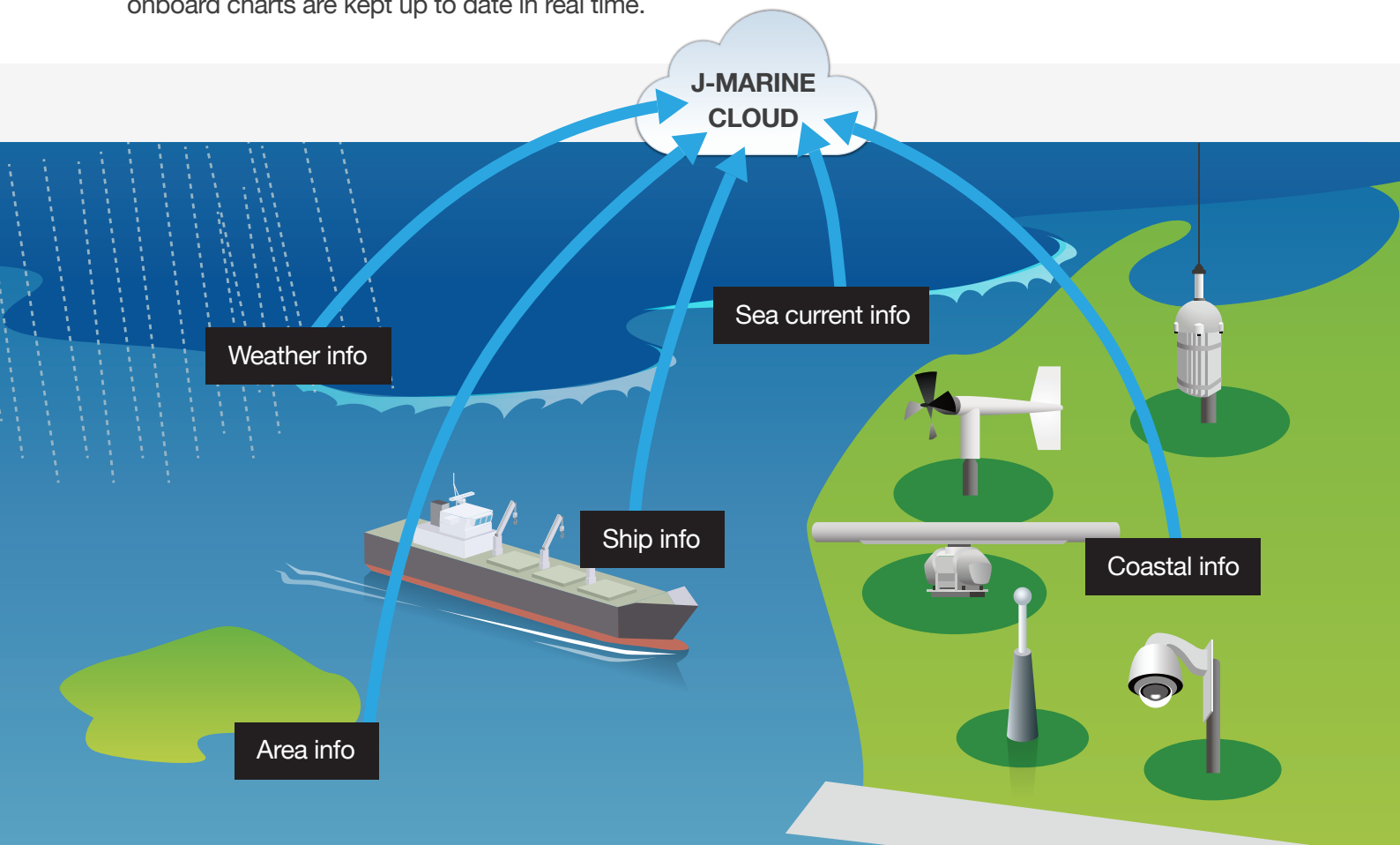
Tech Specs

JUE-60GX [RoHS]

NTG-428 Weight 44 kg

923 mm
842 mm

NTF-329 Weight 8 kg

88 mm
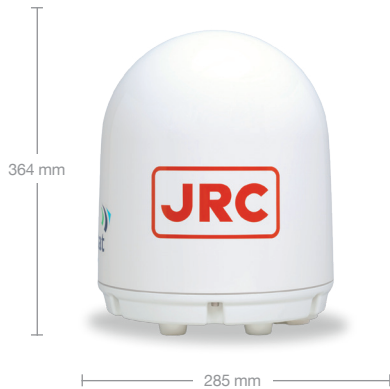430 mm

Downlink freq 19.2 to 20.2 GHz
Uplink freq 29 to 30 GHz
Block up convertor 5W
Elevation -20 to 115°, Azimuth 360°
Temp: -25° (ADE) -15°(BDE) to 55°C
Power 100V to 240V AC (300VA)
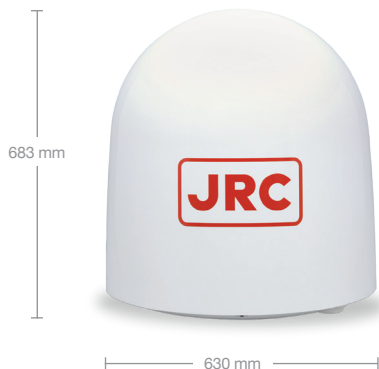
JUE-251 [RoHS]

GSC-251 Weight 4,7 kg

364 mm
285 mm

GSC-252 Weight 4,5 kg

65 mm
262 mm

TX 1626.5 to 1675 MHz
RX 1518 to 1559 MHz
Streaming IP 284 kbps
Standard IP 8, 16, 32, 64, 128 kbps
Temp: -25° (ADE) -15°(BDE) to 55°C
Power 21.6 to 31.2V DC (AC option)

JUE-501 [RoHS]

GSC-511 Weight 20 kg

683 mm
630 mm

GSC-512 Weight 4,5 kg

65 mm
262 mm

TX 1626.5 to 1675 MHz
RX 1518 to 1559 MHz
Streaming IP 432 kbps
Standard IP 8, 16, 32, 64, 128, 256 kbps
Temp: -25° (ADE) -15°(BDE) to 55°C
Power 21.6 to 31.2V DC (AC option)

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