

JRC

INMARSAT-B SHIP EARTH STATION JUE-310B



The new model JUE-310B is the second generation of JRC's Inmarsat-B Ship Earth Station (SES) which incorporates an advanced digital technology to support the Inmarsat-B digital satellite communication system.

The JUE-310B provides high quality and high security of voice, telex, facsimile and optional data communication at low communication charge compared with that of Inmarsat-A SES.

The JUE-310B meets the latest Inmarsat-B System Definition Manual and is also designed to be compact, user-friendly, easy installation, and high quality.

FEATURES

- Lighter weight of Above Deck Equipment (ADE) and smaller sized Below Deck Equipment (BDE)
- Easy installation with single coaxial cable between ADE and BDE
- Simple power supply system by AC Voltage (100/110/220 V)
- Adoption of user friendly custom Video Display Unit (VDU) providing simple operation
- Available for optional data services, such as 64Kbps High Speed Data and 9.6Kbps Medium Speed Data
- Available for optional card reader to record communication charges

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MAJOR SPECIFICATIONS

Frequency range

Transmit : 1626.5 to 1646.5 MHz
Receive : 1525.0 to 1545.0 MHz

E.I.R.P.

High select : 33+1/-2 dBW
Medium select : 29+1/-2 dBW
Low select : 25+1/-2 dBW

G/T

-4 dBk or more

Modulation

Voice : Filtered O - QPSK (3/4 rate FEC)
Data : Filtered O - QPSK (1/2 rate FEC)
Telex : BPSK (1/2 rate FEC)

Antenna

Type : 0.89 m diameter parabolic antenna
Polarization : Right - hand circular
Beam width : 15° at 3 dB down
Enclosure : FRP radome (1.27 m diameter)

Primary power

Voltage : 100/110/220VAC ± 10%, single-phase
(440 VAC - option)
Frequency : 60 Hz ± 6%

Environmental conditions

Temperature : ADE - 25°C to +50°C
BDE 0°C to +45°C
Humidity : Up to 95% (relative)
Icing : Up to 25 mm
Precipitation : Up to 100 mm / hour
Winds : Up to 100 knots (in operation)
Up to 120 knots (in survival)
Vibrations : As specified by INMARSAT

Ship's motions

Roll : ± 30° Pitch : ± 10°
Yaw : ± 8° Surge : ± 0.2g
Sway : ± 0.2g Heave : ± 0.5g
Turning rate : 6° / sec Headway : 30 knots

Dimensions and weights

ADE : 1,282 mm (dia.) × 1,289 mm (H), 75 kg
BDE : Main Unit 430 mm (W) × 125 mm (H) × 310 mm (D), 12 kg
VDU 350 mm (W) × 250 mm (H) × 60 mm (D), 2.5 kg
(Except key board and installation bracket)
Telephone 150 mm (W) × 228 mm (H) × 150 mm (D), 0.7 kg
Printer 390 mm (W) × 254 mm (H) × 338 mm (D), 7.5 kg

STANDARD COMPOSITION

- Above Deck Equipment (ADE)
- Below Deck Equipment (BDE)
 - VDU
 - Telephone Set
 - Printer
- ADE-BDE Single coaxial cable
(Standard : 50 m, Option : Up to 100 m)
- MODEM Interface Unit (MIU)*1

OPTIONS

- Remote Telephone Set
- High Speed Data (HSD)*1
- G3 facsimile
- Buzzer Box
- External Voice Distress Button
- Card Reader with Card Reader Interface Unit (CRI)
- DGPS Interface*2

note :

*1 Available data communication software and data terminals are subject to JRC's standard specification. For the details please contact JRC mentioned below.

*2 DGPS Interface conditions are subject to JRC's standard specification as follows ;

- Frequency ; L-band (1525MHz ~ 1545MHz)
- Output level ; - 58dbm ~ - 107dbm
- Impedance ; 50 Ω

For the details please contact JRC mentioned below.

JRC reserves the right to make change in its products and specifications without notice.

For further information, contact:

JRC

Since 1915

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