Inmarsat-C Mobile Earth Station

FELCOM18

Frequency
- 1626.5 - 1646.5 MHz

Channel Spacing
- 5 kHz

Modulation Rate
- 600, 1200 sps Unfiltered BPSK

Minimum G/T
- -23.0 dB/K (at elv. 5°)

Output Power
- 12 -16 dBW (at elv. 5°)

Power Supply
- less than 130 W

Inmarsat MINI-C Mobile Earth Station

FELCOM19

Frequency
- 1537.0 -1544.2 MHz

Channel Spacing
- 5 kHz

Modulation Rate
- 1200 sps Unfiltered BPSK

Minimum G/T
- -23.7 dB/K (at elv. 5°)

Output Power
- 7 -16 dBW (at elv. 5°)

Power Supply
- less than 50 W

SPECIFICATIONS

Product Name

Frequency
Channel Spacing
Modulation Rate
and format
Minimum G/T
Output Power
Power Supply

ENVIRONMENT

Temperature
- -35 to +55°C (Storage: +70°C)

Relative Humidity
- 40°C 95%

Antenna Unit

BDE

EQUIPMENT LIST

Standard

Option

1 Antenna Unit with 30 m cable IC-119 1 unit

2 Communication Unit  IC-219 1 unit

3 Junction Box  IC-318* 1 unit

4 SSAS Alert Unit  IC-307* 2 unit

5 Installation materials

*applicable only for SSAS specification

1 AC/DC Power Supply Unit  PR-240

2 SSAS Alert Unit  IC-307**

3 Junction Box  IC-318**

4 Printer  PP-520

**applicable only for non-SSAS specification

1 Antenna Unit with 30 m cable IC-118 1 unit

2 Terminal Unit with keyboard IC-218 1 unit

3 Junction Box  IC-318 1 unit

4 SSAS Alert Unit  IC-307* 2 unit

5 Installation materials

*applicable only for SSAS specification

1 Distress Alert/Received Call Unit  IC-305

2 Alarm Unit  IC-306

3 AC/DC Power Supply Unit  PR-240

4 GPS Board Kit

5 SSAS Alert Unit  IC-307**

6 Printer  PP-520

**applicable only for non-SSAS specification

Models:
FELCOM18
FELCOM19
Proven solutions for Inmarsat-C/Inmarsat MINI-C services fully incorporated SSAS and LRIT capabilities

Features of FELCOM18

- Inmarsat-C Ship Earth Station terminal for GMDSS application
- Full GMDSS compliance with optional printer and AC/DC power supply
- SSAS capability with SSAS Alert Units
- Compatibility with LRIT application
- Compatible with the following standard:
  - IMO A.570(14), IMO A.664(16), IMO A.694(17), IMO A.807(19), IMO MSC.147(77),
  - IMO MSC.36(63), IMO MSC.88(88) Annex 4, IMO MSC.97(73), IMO MSC.263(84),
  - MSC/Circ.862, IEC 60945 Ed. 4, IEC 61097-4 Ed. 2, IEC 61162-1 Ed. 4
- A wide variety of communication schemes available: telex, FAX, emailing, EGC, Data reporting/polling, etc.
- SD card for recording media
- GPS receiver (option)

Model: FELCOM18

Compatible with:

- Ship Security Alert System
- Global Maritime Distress and Safety System

Interconnection Diagram
Proven solutions for Inmarsat-C/Inmarsat MINI-C services
and LRIT capabilities

Features of FELCOM19

- Inmarsat MINI-C Mobile Earth Station terminal
- Compatibility with LRIT application
- SSAS capability with SSAS Alert Units
- A wide variety of communication schemes available: telex, FAX, emailing, EGC (non-GMDSS), Data reporting/polling, etc.
- GPS receiver incorporated
- Black-box configuration allows flexible installation

Interconnection Diagram

Model: FELCOM19
SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Inmarsat-C Mobile Earth Station</th>
<th>Inmarsat MINI-C Mobile Earth Station</th>
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<tbody>
<tr>
<td>FELCOM18</td>
<td></td>
<td>FELCOM19</td>
</tr>
<tr>
<td>Frequency</td>
<td>TX: 1626.5-1646.5 MHz</td>
<td>RX: 15370-1544.2 MHz</td>
</tr>
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<td>Channel Spacing</td>
<td>5 MHz</td>
<td></td>
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<td>Modulation Rate and format</td>
<td>TX: 600 sps Unfiltered BPSK</td>
<td>RX: 1200 sps Unfiltered BPSK</td>
</tr>
<tr>
<td>Minimum G/T</td>
<td>12-16 dBW (at elv. 5°)</td>
<td>-23.7 dB/K (at elv. 5°)</td>
</tr>
<tr>
<td>Output Power</td>
<td>12-24 VDC</td>
<td>less than 10 W</td>
</tr>
</tbody>
</table>

ENVIRONMENT

| Temperature | Antenna Unit | -35 to +55°C (Storage: +70°C) |
| Relative Humidity | BOE | 40% to 95% |

EQUIPMENT LIST

| Standard | 1 Antenna Unit with 30 m cable IC-118 | 1 unit |
|          | 2 Terminal Unit with keyboard IC-218 | 1 unit |
|          | 3 Junction Box IC-318 | 1 unit |
|          | 4 SSAS Alert Unit IC-307* | 2 unit |
|          | 5 Installation materials | *applicable only for SSAS specification |

| Option | 1 Distress Alert/Received Call Unit IC-305 | 1 unit |
|        | 2 Alarm Unit IC-306 | 1 unit |
|        | 3 AC/DC Power Supply Unit PR-240 | 1 unit |
|        | 4 GPS Board Kit | 1 unit |
|        | 5 SSAS Alert Unit IC-307** | 2 unit |
|        | 6 Printer PP-520 | **applicable only for non-SSAS specification |

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