The IRT Technologies IRK® Series (Intelligent Redundant Kit) 16W-500W Ku-Band / 20W-400W C-Band 1:1 redundancy system is light weight and super-compact due to revolutionary small size IRT BUCs/SSPAs equipped with intelligent built in redundancy controller that's why IRK® systems does not require an external redundancy controller; means there is no single point failure in the redundant system and its reliability is much higher.

IRK® Series features extensive monitor & control via serial ports EIA232/EIA485 and Ethernet. The state of the art web browser provides the operator with comprehensive system management tool.

**KEY FEATURES**
- Eliminates External Redundancy Controller as a Single Point of Failure For the regular 1:1 system
- Easy BUC/PA unit’s replacement without interruption of traffic
- Remote Control over RS-232, RS-485 and Ethernet.
- Built-in SNMP and Web Server
- Auto manual, Remote, Manual Override
- Operational Modes
- In hot standby max attenuation is applied to standby BUC/SSPA to reduce power consumption and to improve life time;
- BUC A/B Gain Equalization Feature
- Manual Switch-Over Button
- Indoor IRU Remote Control Unit Optional

**IF/RF CHARACTERISTICS**
- IF Frequency Range: 950-1525MHz / 950-1700MHz
- RF Frequency: 5085-6.425GHz / 13.75-14.5GHz
- Return Loss at IF In Port: -14dB max
- Return Loss at RF Out Port: -16dB max
- Output Power: Up to 500W at PSAT
- Input IF port Impedance: 50Ohm

**POWER**
- AC option: 90-265VAC 50-60Hz to each BUC/SSPA
- DC option: 36-55 VDC Isolated to each BUC/SSPA

**INTERFACES**
- IF IN (L-Band and 10MHz): N-type female
- RF Out: CPR137/WR75 Grooved
- User Interface: MS3112E14-19S

**MONITOR & CONTROL FEATURES**
- Controls
  - Online/Stand By Toggle: Via Serial,Ethernet
  - Mute Control: Via Serial,Ethernet
  - Gain Control: Via Serial,Ethernet
  - Gain equalization offset: Via Serial,Ethernet
  - Hot standby/Cold Standby: Via Serial,Ethernet
- Indicators
  - Active/Stand by status: Via Serial,Ethernet
  - Mute Status: Via Serial,Ethernet
  - Switch Position: Via Serial,Ethernet, LED
  - BUC A/B full telemetry: Via Serial,Ethernet
  - Alarm A/B details: Via Serial,Ethernet

**IRT Part Number**

<table>
<thead>
<tr>
<th>Power, Watt</th>
<th>C-BAND</th>
<th>KU-BAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRK-CB00490-HM10</td>
<td>20W to 80W</td>
<td>16W to 60W</td>
</tr>
<tr>
<td>IRK-CB00500-HM10</td>
<td>100W</td>
<td>80W to 125W</td>
</tr>
<tr>
<td>IRK-CB00530-HM10</td>
<td>150W to 200W</td>
<td>150W to 200W</td>
</tr>
<tr>
<td>IRK-CB00560-HM10</td>
<td>300W to 400W</td>
<td>300W to 500W</td>
</tr>
<tr>
<td>IRK-KXB0480-HM10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRK-KXB0510-HM10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRK-KXB0530-HM10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRK-KXB0570-HM10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>