

# XTREME RP1

## Modular 1RU Chassis w/LNB Power Insertion and Redundancy Switch Cards



### General Description:

The RP1 1RU modular chassis provides centralized power control and signal redundancy options. Hot-Swappable redundant power supplies, I/O Modules, and a field replaceable cooling fan provide maximum reliability. Eight card slots provide combinations of up to 16 Bias-T DC Power Inserters, eight 2x1 RF sensing and LNB power redundancy switch with Q-SENSE®, or 16 quick disconnect switchable DC power outputs. Remote control is available via web browser GUI, SNMP, or Quitech API protocol over TCP/IP.

### Features & Benefits:

- 700-3000 MHz operating range
- Eight hot-swappable card slots with flexible configurations
- LNB status monitoring
- 10 MHz reference distribution to all slots
- Redundant hot swappable power supplies
- Field replaceable cooling fan

### Dual LNB Bias-T Card Specifications:

<b>Type:</b>	Dual		
<b>Each Port:</b>	Selectable 0/13/18 VDC, 22 kHz Tone 400 mA nominal (550 mA peak inrush), 750 mA (2 pin) Short Circuit Protection with Automatic Reset		
<b>Status</b>	Under Current (<50 mA), Short, and Normal		
<b>Operating Frequency (MHz):</b>	950-2150 MHz	950-2500 MHz	700-3000 MHz
<b>Insertion Loss (Max):</b>	1 dB	1 dB	1.5 dB
<b>Return Loss (Min):</b>	14 dB	12 dB	10 dB
<b>Isolation (Min):</b>	65 dB		
<b>10 MHz Input Power Level (Max):</b>	0 dBm		
<b>RF Connectors:</b>	F(f), BNC(f) 75 Ω or 50 Ω, SMA		

### 2x1 Redundancy Switch Card Specifications:

<b>Type:</b>	2x1 w/RF Sensing		
<b>Operating Frequency (MHz):</b>	950-2150 MHz	950-2500 MHz	700-3000 MHz
<b>Insertion Loss:</b>	3 +/-0.5 dB	3 +/-1 dB	3.5 +/-1 dB
<b>Return Loss (Min):</b>	14 dB	13 dB	10 dB
<b>Isolation (Min):</b>	50 dB	50 dB	45 dB
<b>RF Sensing Range:</b>	-50 to 0 dBm		
<b>Max Input Power:</b>	24 dBm		
<b>RF Connectors:</b>	F(f), BNC(f) 75 Ω or 50 Ω, SMA		

### Chassis Specifications:

<b>Power Requirements:</b>	100-240 V~, 50/60 Hz
<b>Power Consumption:</b>	10 W Standby, 200 W Fully Loaded
<b>Local Control:</b>	2.2" LCD Display with Rotary Control Knob
<b>Computer Control:</b>	TCP/IP, Web Browser Interface, or SNMP
<b>Size:</b>	1 RU (1.75" H x 19" W x 18.5" D)
<b>Weight:</b>	12 lbs. Gross (boxed), 9 lbs. net

\*Specifications may vary with connector type. See individual specification sheet for specific performance data.