

MAXNET®

L-Band Signal Management

Patented
U.S.# 6,842,348;
Cdn.# 2,404,844



5RU Active L-Band Chassis
(front view)

Active & Passive Product Overview

Passive, Active, & Remote Powered Active Chassis:

- ▶ All chassis versions allow for a high density, rack mount L-Band signal distribution network to be neatly & efficiently deployed in the Headend
- ▶ Active chassis (MN5BA) integrated power interface eliminates requirement for any additional power distribution bars or cables
- ▶ Remote powered active chassis (MN5BAR) accepts two independent 24 VDC power sources; fused & diode isolated inputs
- ▶ Passive chassis can accept up to 9 passive modules (dual width)
- ▶ Both active chassis accept up to any combination of 9 passive modules or 9 active modules (dual width)



MN5BAR
Remote Powered
Active Chassis
(rear close-up view)

L-Band Splitters:

- ▶ 16-way, 12-way, 8-way, 4-way, & dual 2-way modules available
- ▶ Optimized L-Band signal performance
- ▶ 20 dB front test points on 16, 12, 8, & 4-way modules
- ▶ LNB can be powered from any of the 28V, 500mA DC diode steered power passing output ports
- ▶ Auxiliary rear terminal block DC power input allows for redundant LNB powering from the MAXNET® chassis (MNPDL required) or an independent power supply
- ▶ F & BNC connectors & terminators available
- ▶ Predetermined unused ports can be terminated at factory



Splitter
(front & back views)

L-Band Amplifiers:

- ▶ Ideal for overcoming cable or splitting losses in the L-Band network
- ▶ Low noise figure (3 dB) & high level output capability (12 dBm)
- ▶ 28V, 500mA diode steered power passing capability
- ▶ 20 dB front test point
- ▶ Front panel LED power indicator
- ▶ Hot-swappable
- ▶ Single or dual amplifier modules available
- ▶ F & BNC connectors & terminators available
- ▶ Predetermined unused ports can be terminated at factory



Amplifier

Other Modules Available:

- ▶ Standalone LNB Redundant Powering Units
- ▶ L-Band Sensing / A/B Switch
- ▶ L-Band Active Splitter



Powering Unit,
Switch & Splitter

L-Band Signal Management

Power Supplies:

- ▶ 24V, 3.6 A hot-swappable, plug-in power supplies; typically power up to 8 MAXNET amplifier modules
- ▶ 110/220 VAC or -48V with redundancy capabilities
- ▶ 24V output on rear of power supplies facilitates daisy chain powering of other MAXNET chassis
- ▶ Redundant remote powering unit (+24 VDC)
- ▶ Remote powering unit facilitates daisy chain chassis powering or chassis powering from independent power supply sources
- ▶ Front panel LED power indicator
- ▶ Front voltage test point
- ▶ Form "C" relay contact indicates power failure



Power Distribution Module:

- ▶ Designed to allow for standalone or redundant powering of up to 8 LNBS from the MAXNET chassis & independent power supply if desired
- ▶ Module pulls 24 VDC power from MAXNET active/passive chassis and transfers it to 8 rear terminal block outputs
- ▶ Rear terminal block outputs can be wired into auxiliary power inputs on MAXNET L-Band splitters
- ▶ Rear terminal block outputs rated for 28V, 500mA
- ▶ Active short circuit protection isolates network failures to single rear terminal block output

