

MAXNET®

RF Signal Management

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



5RU Standard RF Chassis
(front view)

Passive Product Overview

Features:

- ▶ Fully integrated platform (passives & actives available)
- ▶ High quality RF performance (5 MHz - 1 GHz)
- ▶ High density (up to 18 passive modules or 9 active modules)
- ▶ Passive modules include: Splitters, combiners, DCs, filters, plug-in pad & EQ module, Broadcast/Narrowcast combiner, & custom modules
- ▶ Front access to pads & EQs
- ▶ Test point monitoring
- ▶ Multiple chassis configurations
- ▶ Variety of cable management solutions
- ▶ Color-coded, surge protected modules
- ▶ Connector options include F & BNC
- ▶ Terminator options include F & BNC
- ▶ Predetermined unused ports can be terminated at factory
- ▶ 100% quality control

Passive Module Configurations:

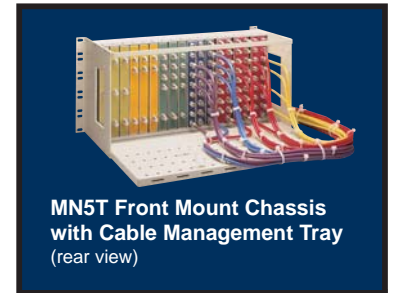
- ▶ DC
- ▶ Dual 2-way
- ▶ Triple 2-way
- ▶ 4-way
- ▶ Dual 4-way
- ▶ 8-way
- ▶ 16-way
- ▶ Filters
- ▶ Plug-in pad & EQ modules
- ▶ Broadcast/Narrowcast combiner
- ▶ Custom modules

Active Modules Available:

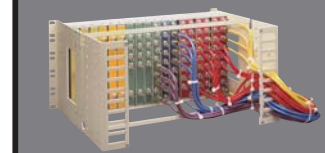
- ▶ Amplifiers
- ▶ Power supplies
- ▶ RF detector/switch
- ▶ A/B switch



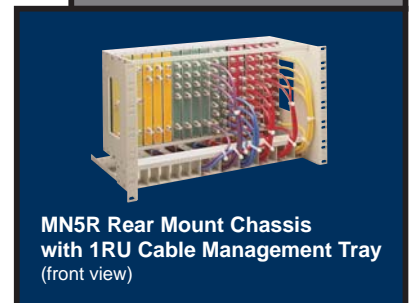
MN3 3RU Passive Chassis
(front view)



MN5T Front Mount Chassis
with Cable Management Tray
(rear view)



MN5E Front Mount Chassis
with Cable Management Ears
(rear view)



MN5R Rear Mount Chassis
with 1RU Cable Management Tray
(front view)



MN1 Front Mount Chassis
with Cable Management Bar
(front and rear views)

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



MN5BA Active Chassis
(front view)



See web site for specifications &
ordering information - www.atxnetworks.com

ISO
9001
REGISTERED

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5RU Active RF Chassis
(front view)

Active Product Overview

Active Chassis:

- ▶ Allows for a high density, fully integrated rack mount RF Management system
- ▶ Accepts active, passive & filter modules
- ▶ Hot-swappable, plug-in power supplies & amplifier modules eliminates requirements for additional power distribution bars or cables
- ▶ Can accommodate up to 18 passives modules or 9 active modules



MN3 3RU Passive Chassis
(front view)

Remote Powered Active Chassis:

- ▶ Accepts two independent 24 VDC power sources; fused & diode isolated inputs
- ▶ Accepts active, passive & filter modules
- ▶ Contacts open on loss of 24 VDC
- ▶ Rear power indication LED

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



MN5B Standard Chassis
(front view)

Amplifiers:

- ▶ Hot-swappable amplifiers in a variety of technology offerings: GaAs PD, Si PP / PD and GaAs IC
- ▶ Variety of amplifiers for any application: forward combining, forward dual hybrid, QAM narrowcast, & return applications
- ▶ Front access test point(s)
- ▶ Removable front cover allows access to plug-in pads, EQs & filters while unit is installed in the chassis
- ▶ Front panel LED power indicator
- ▶ F & BNC connector and terminator options
- ▶ Predetermined unused ports can be terminated at factory



Amplifier

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 Supply

RF Signal Management

RF Detector/Switch:

- ▶ Allows for redundant configuration of RF amplifiers or operates as an RF Detector A/B Switch
- ▶ Switch status indicated via front panel LED & rear terminal block relay contact
- ▶ Front panel bar graph display provides indication of RF power level as well as switch threshold level
- ▶ Optimized isolation between primary & secondary paths (>70 dB to 1 GHz)
- ▶ Optimized switch time (<10ms)
- ▶ Minimized insertion loss (<2 dB to 1 GHz)



Dual A/B Switch:

- ▶ Two A/B switches in one module
- ▶ Local & remote switching capabilities
- ▶ Switch status indicated via front panel LED & rear terminal block relay contact
- ▶ Optimized isolation (>58 dB to 1 GHz)
- ▶ Minimized insertion loss (0.8 dB at 1 GHz)

