

# MAXNET®

## RF Signal Management

Patented  
U.S.# 6,842,348



**MN5B Standard 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)
- ▶ Splitters, combiners, DCs, filters, amplifiers, power supplies, RF detector/switch, A/B switch, & 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 and BNC
- ▶ Terminator options include F and BNC
- ▶ Predetermined unused ports can be terminated at factory
- ▶ 100% quality control

### Passive Module Configurations:

- |                |                  |
|----------------|------------------|
| ▶ DC           | ▶ Dual 4-way     |
| ▶ 2-way        | ▶ 8-way          |
| ▶ Dual 2-way   | ▶ 16-way         |
| ▶ Triple 2-way | ▶ Filters        |
| ▶ 4-way        | ▶ Custom modules |

### Active Modules Available:

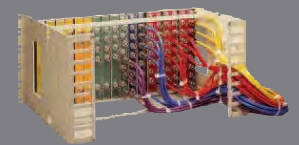
- ▶ Amplifiers
- ▶ Power supplies
- ▶ RF detector/switch
- ▶ A/B switch



**MN3 3RU Passive Chassis**  
(front view)



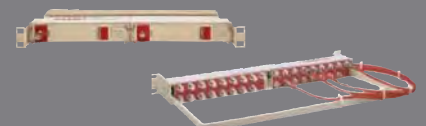
**MN5T Front Mount Chassis with Cable Management Tray**  
(rear view)



**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)

# MAXNET®

## RF Signal Management

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U.S.# 6,842,348



MN5BA Active Chassis  
(front view)

## Active Product Overview

### Active Chassis:

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

### Remote Powered Active Chassis:

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

### Amplifiers:

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- ▶ 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/narrowcast insertion, high gain, high isolation combining, QAM narrowcast, and return applications**
- ▶ Front access test point(s)
- ▶ Removable front cover allows access to plug-in pads, EQs and filters while unit is installed in the chassis
- ▶ Front panel LED power indicator
- ▶ F and BNC connector and terminator options
- ▶ Predetermined unused ports can be terminated at factory

### Power Supplies:

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- ▶ 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



Amplifier



Power Supply



MN3 3RU Passive Chassis  
(front view)



MN5B Standard Chassis  
(front view)



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



## 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 and 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 and 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 and remote switching capabilities
- ▶ Switch status indicated via front panel LED and rear terminal block relay contact
- ▶ Optimized isolation (>58 dB to 1 GHz)
- ▶ Minimized insertion loss (0.8 dB at 1 GHz)

