



# MAXNET® II

## Platinum Series



Patented  
U.S.# 7,142,414

3RU Active Chassis  
(front view)

### Active Amplifiers & RF Switches RF Detector A/B Switch

#### Features

- RF detector A/B switch & 2-way splitter in one module
- Ideal for automated RF signal backup or redundant RF amplifier applications (see application diagram)
- Nominal RF level is measured on A & B paths
- Front LEDs indicate module power & switch position
- High performance MCX connectors (with optional F connectors)
- Voltage, current, temperature, nominal RF power levels (A&B), switch position, & alarm threshold are easily monitored & controlled over the network (HMS compliant

D3.1/CCAP™  
Compliant

1.2 GHz

(SNMP v2c) or through a web browser; email alarm notification is also supported

- RF detector A/B switch module takes up 2 slots in MAXNET® II chassis (total of 24 slots)
- Now with continuity of RF power on "A" path upon power loss to module
- 1.2 GHz option to support DOCSIS® 3.1

#### Specifications

##### MPRFA/B / MPRFA/BH

RF SPECIFICATIONS	REDUNDANT AMPLIFIER CONFIGURATION		A/B SWITCH CONFIGURATION	
	5-1002 MHz	5-1218 MHz	5-1002 MHz	5-1218 MHz
INSERTION LOSS (Max)	< 6.2 dB	< 7 dB	< 2.2 dB	< 2.5 dB
INSERTION LOSS UNPOWERED (Max)*	< 7.7 dB	< 8 dB	< 3.5 dB	< 4 dB
INPUT/OUTPUT RETURN LOSS (Min)	> 18 dB	> 18 dB	> 18 dB	> 18 dB
ISOLATION (Min)	> 60 dB	> 58 dB	> 60 dB	> 58 dB
<b>OPERATIONAL SPECIFICATIONS</b>				
COMPOSITE RF POWER RANGE	25-75 dBmV			
SWITCH THRESHOLD CONTROL	HMS SNMP v2c, Web Browser, Proprietary Network Interface			
SWITCH TIME (Max)	< 10mS			
SWITCH STATUS INDICATION	Front Panel LEDs and HMS SNMP v2c, Web Browser, Proprietary Network Interface			
OPERATING TEMPERATURE	-40°C to +60°C (-40°F to +140°F)			
HUMIDITY	5-95% (without condensation)			
<b>ELECTRICAL SPECIFICATIONS</b>				
INPUT VOLTAGE	24 VDC			
INPUT CURRENT	30mA			
POWER INDICATOR	Front Panel LED			
<b>OTHER</b>				
DIMENSIONS	4.9"H x 1.4"W x 10.5"D (12.45H x 3.56W x 26.67D cm)			
WEIGHT	2.43 lbs (1.1 kg)			

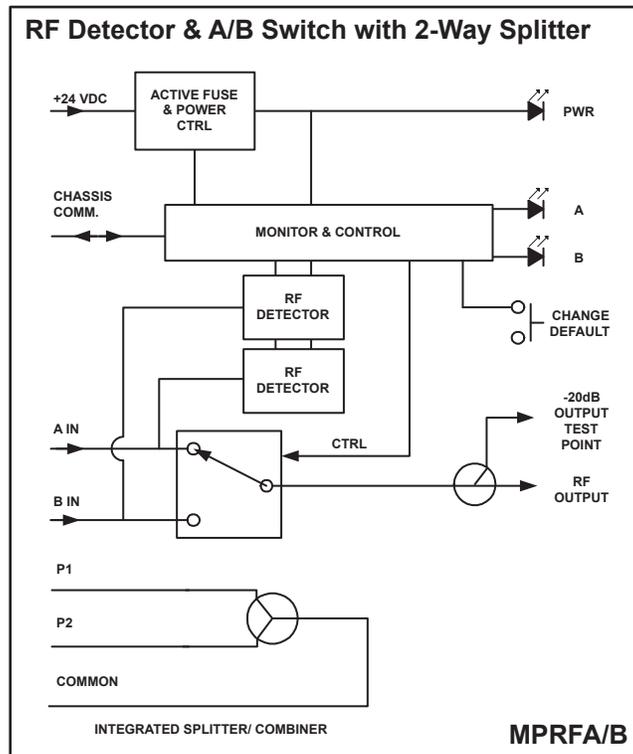
NOTE:

\* Default state for unpowered operation is position A.

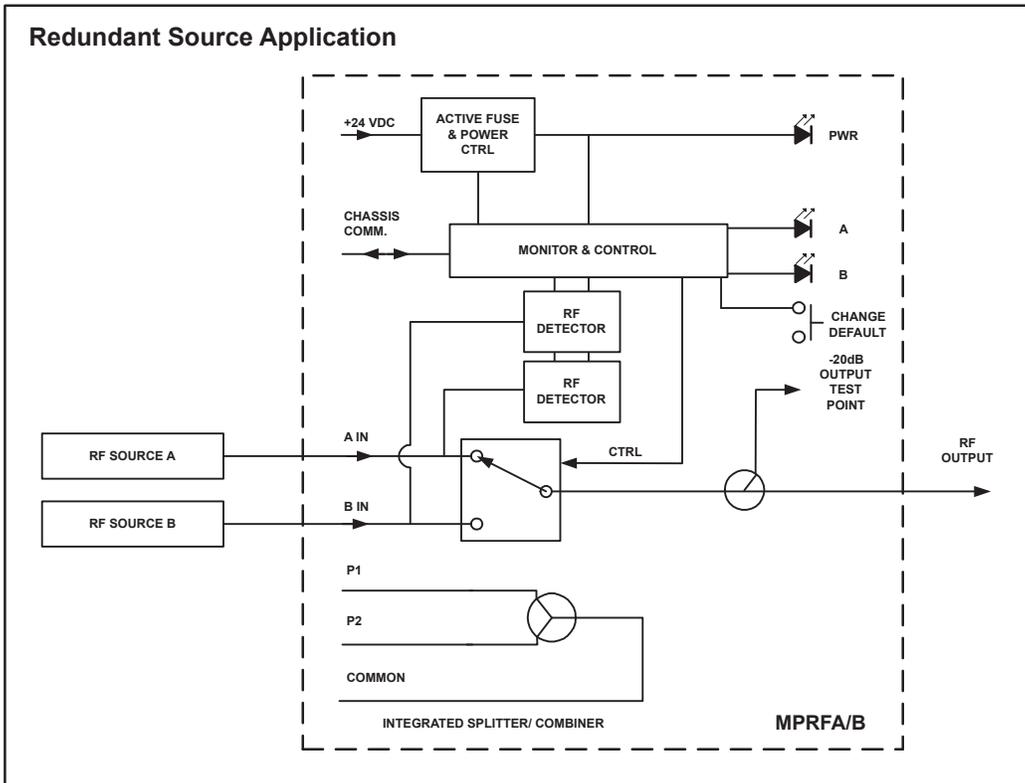
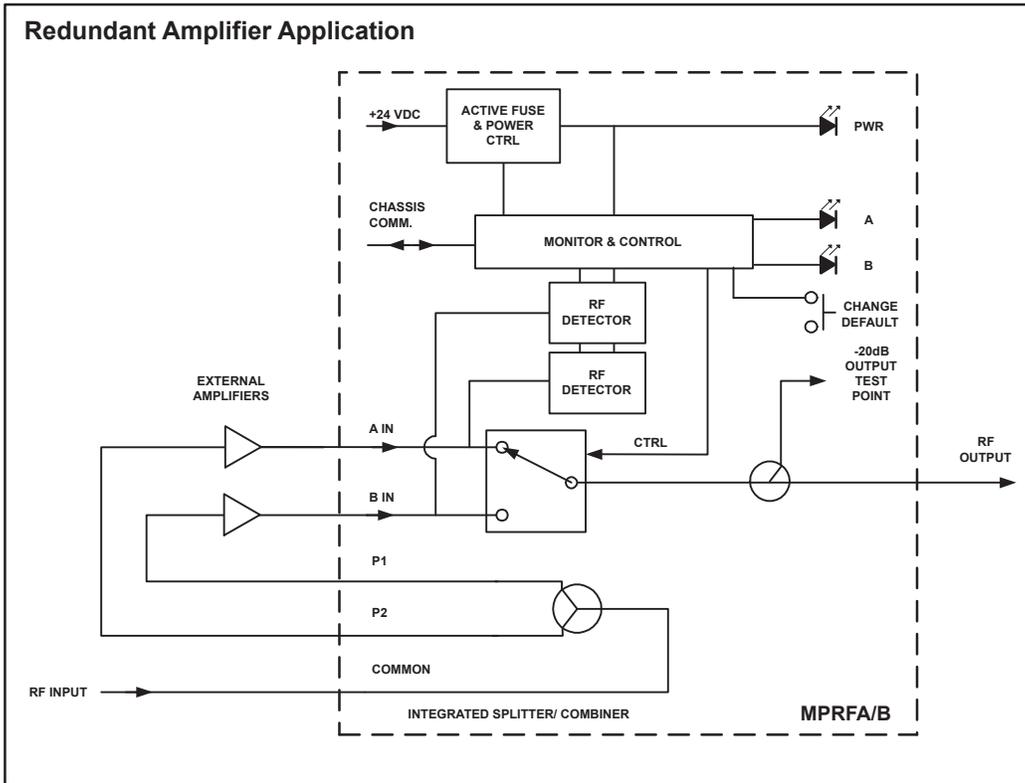


## Ordering Information

Part Number	Description
MPRFA/B	1002 MHz, RF Detector/Switch, MCX Connectors
MPRFA/BH	1218 MHz, RF Detector/Switch, MCX Connectors
MPRFA/BF	1002 MHz, RF Detector/Switch, F Connectors
MPRFA/BFH	1218 MHz, RF Detector/Switch, F Connectors



Functional Schematic



**Application Diagrams**

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