

MRF Series

Full Fan-out (Splitting) , Non-blocking RF Matrix Routing Switches

Quintech MRF 2150



Quintech's MRF Series of programmable, non-blocking, full fan-out RF matrix routing systems, when fully integrated, are configured to route any of 2, 4, 8 or 12 inputs carrying RF signals to any number of 2 or 4 outputs. These multi-octave systems utilize patented stack-and-tier technology offering compact, ultra-reliable, high performance realizations of radio frequency (RF) switching technology very cost effectively. This advanced realization greatly reduces the size, complexity and cost of large broadband RF routing systems, while enhancing their performance and reliability through a drastic reduction in the number of switching modules, component count, connectors and interconnection cables. Systems are DC-blocking.

Features & Benefits

- Operating frequency ranges for Broadband Cable (5-1000 MHz), IF (5-200 MHz) and Satellite (950-2150 MHz)
- Controllable locally via front panel keypad or remotely via computer (serial or TCP/IP, 10 base-T) and are compatible with most monitoring and control systems
- Maximize use of existing equipment with automated switching and scheduling; no need for dedicated equipment
- Easy access front panel keypad and LCD display provide convenient cross point identification
- Lithium battery maintains cross point configuration in the event of an interruption in power



MRF 2150/12x2



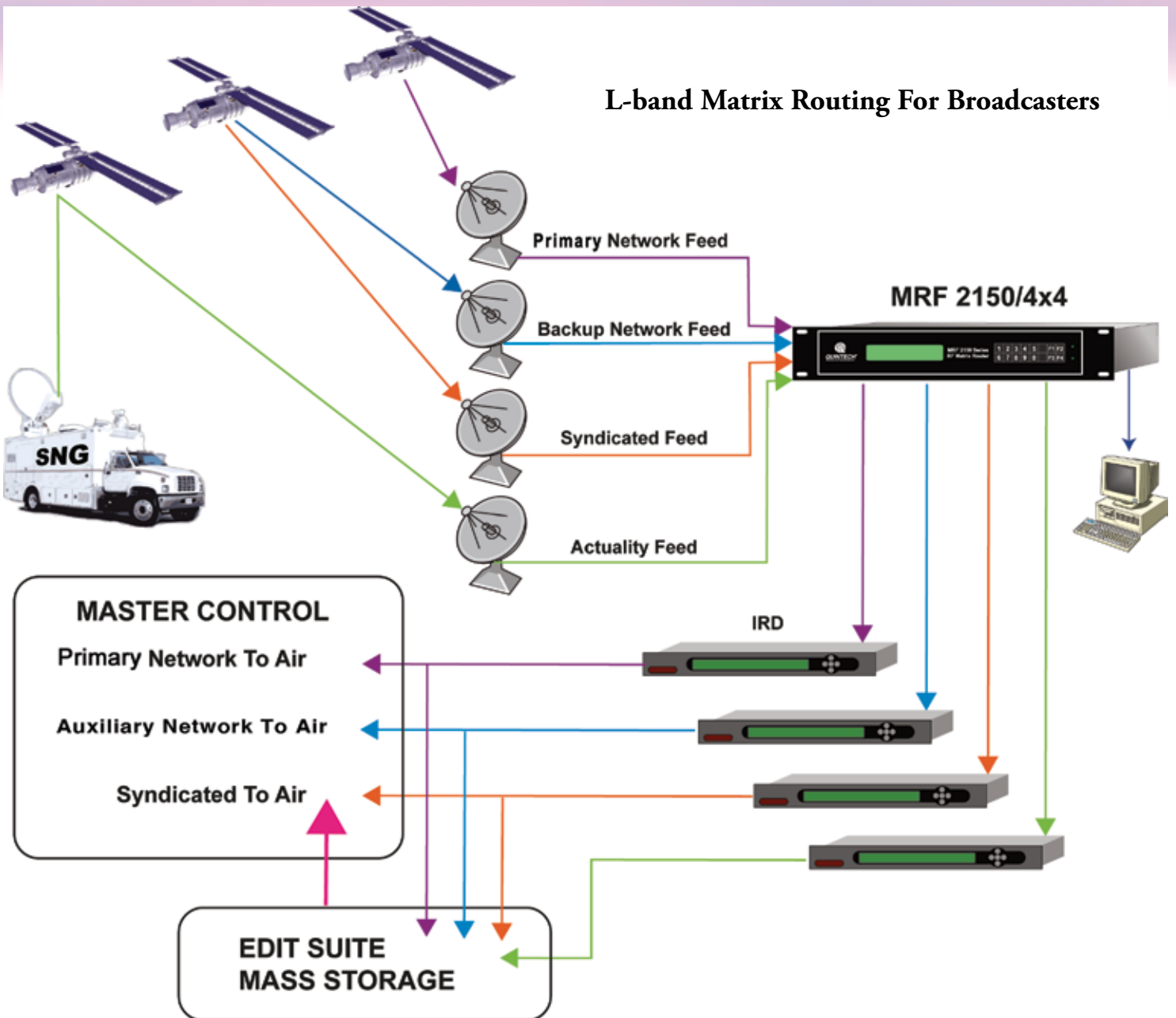
MRF 2150/12x4

MODEL	Inputs	Outputs	Rack Units
MRF 2150/4x4	4	4	2
MRF 2150/8x2	8	2	1
MRF 2150/8x4	8	4	2
MRF 2150/12x2	12	2	1
MRF 2150/12x4	12	4	2
MRF 200/4x4	4	4	2

MODEL	MRF 0200	MRF 1000	MRF 2150
Operating Frequency:	5-200 MHz	5-1000 MHz	950-2150 MHz
Impedance:	75Ω standard (50Ω optional)	75Ω standard (50Ω optional)	75Ω standard (50Ω optional)
P1dB:	+6 dBm	7.5 dBm	+3 dBm
Insertion Loss:	± 1 dB	0 ± 2 dB	0 ± 2 dB
Input Return Loss:	12 dB	15 dB	14 dB
Output Return Loss:	10 dB	10 dB	12 dB
Frequency Response:	± 0.5 dB	± 2 dB	± 3 dB
Isolation (Input to Input):	60 dB	50 dB	≥ 45 dB
Isolation (Output to Output):	60 dB	50 dB	≥ 45 dB
Isolation (Input to Output):	60 dB	45 dB	≥ 40 dB
Control Response Time:	1.26 msec	1.26 msec	1.26 msec
Switching Speed:	40 nsec	40 nsec	40 nsec
RF Connectors:	Type "F", 75 Ω (BNC optional)		
Power Required:	Auto-ranging 100-240 VAC, 50/60 Hz		
Local Control:	Front panel keypad with LCD display		
Remote Control:	RS-232, RS422/485 or TCP/IP (10 base-T) via customer-supplied PC		
Software:	Basic PC compatible software & command protocol included.		
Mechanical:	1 RU (1.75"H x 19"W x 20"D) or 2 RU (3.5"H x 19"W x 20"D), depending on configuration.		
Options:	50 Ω impedance connectors • up to 10 additional UCM 064 remote control modules Summary alarm for power failure via contact closure • power redundancy		



L-band Matrix Routing For Broadcasters



Small Scale L-band Matrix Routing

