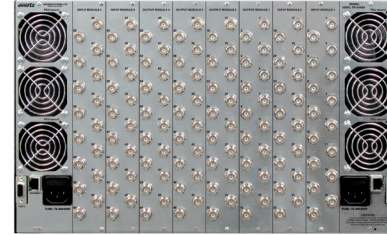
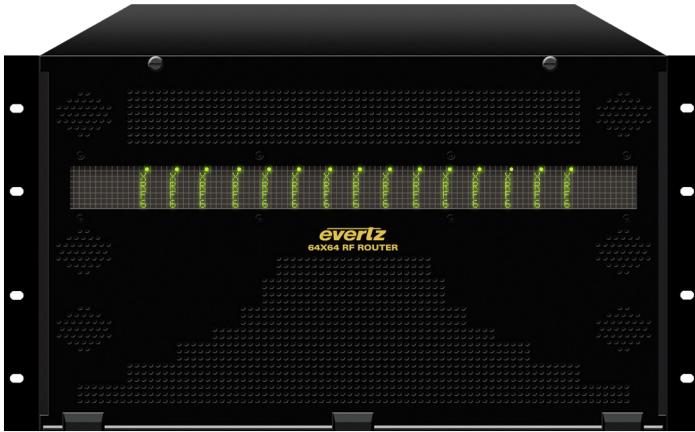


XRF6

32x64, 64x64 RF Router Expandable to 512x512



The XRF6 is a modular RF signal matrix for routing and monitoring L-band, IF and other signals within a satellite communications facility. Built on a modular architecture, all active components are hot-swappable and front-loading, ensuring ease of maintenance and matrix expansion. Advanced features such as automatic gain control, salvo operations, monitoring, and alarm reporting of critical signal parameters such as input signal presence and signal level provide flexible RF signal management. Optional 18VDC LNB power is also available with active overload and short circuit protection.

The XRF6 is offered with the X-NCP2 and CP-22xxxE series remote control panel options for crosspoint control and system configuration. Additionally, this flexible routing matrix can be controlled, configured and monitored via serial control and/or SNMP control over Ethernet, using Evertz' VistaLINK® PRO or other monitoring and control software.

The XRF6L houses up to a 64x64 routing matrix within a 6RU chassis. Matrix sizes are scalable in increments of 16x inputs and outputs. External expansion to 512x512 is available with the addition of multiple frames and Evertz' SRF series passive splitters/combiners. Input cards and output cards can be added independently for non-square matrix sizes. High reliability is ensured by low component count per signal path, optional dual power supplies, and redundant system controllers.

Features & Benefits

- Future proof with 40–2450MHz operation
- Preserves signal quality from input to output, supports strict performance requirements of advanced modulation formats
- 70/140MHz IF, L-Band, stacked L-Band and off-air DTV all in one platform
- Passes all modulation formats
- Modular design; all cards are front loaded and hot-swappable
- Passcode protection for configuration parameters and destination locks
- Up to 8x programmable salvos
- External system expansion capability up to 512x512
- Redundant power supply and frame controller options
- Non-blocking, fan-out configuration
- Optional 18VDC LNB power with active overload and short circuit protection
- Solid State matrix switching
- Automatic or manual gain control on all input channels
- RF power monitoring on all input channels
- Adjustable output level in AGC mode

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RF Specifications

	Frequency Response	Isolation	RF Input Power	Max. RF Output Power	Input P1dB	OIP3	Noise Figure	Return Loss
L-Band (850–2450MHz*)	±1.5 dB over the passband, ±0.5dB over any 36MHz channel	>60dB input to output, >70dB output to output and input to input	-10dBm to -70dBm	-10dBm	+2dBm (1500MHz) typ.	+12dBm (1500MHz) typ.	6dB (1500MHz, gain=20dB) typ.; 20dB (1500MHz, gain=0dB) typ.	>15dB (input and output)
IF (40–200MHz*)	±0.5 dB over 50–90MHz and 120–60MHz	>60dB input to output, >70dB output to output and input to input	-15dBm to -70dBm	-10dBm	-4dBm (70MHz) typ.	+10dBm (70MHz) typ.	—	>13dB (input), >15dB (output)

Specifications

System:

Matrix Sizes: 16x16 to 64x64 in a 6RU frame; 512x512 max. expanded system size

System Expansion: Inputs/outputs expandable in increments of 16

Impedance: 75Ω (50Ω optional)

Connector Type: BNC per IEC 61169–8, Annex A (SMA, F-Type connectors optional)

Gain Range (manual gain mode): -6dB to 20dB in 1dB steps

Output AGC Level: -20dBm to -50dBm

Bandwidth: 40–2450MHz

LNB Power:

Voltage: 18VDC, off (selectable)

Current: 400mA

Protection: Short circuit, overload

Communication & Control:

Serial: RS-232/RS-422 selectable — female

Ethernet: 9-pin connector SNMP over IEEE 802.3/U (10/100 BaseTx) RJ-45 connector

Control: X-NCP2, CP-2232E or CP-2116E control panels; VistaLINK® PRO, MAGNUM or third-party SNMP or serial interface

Electrical:

AC Input: Auto-ranging, 100–240V AC, 50/60Hz

Max. Power Consumption: 350W (fully loaded frame)

Connector: IEC 60320 — 1 per power supply

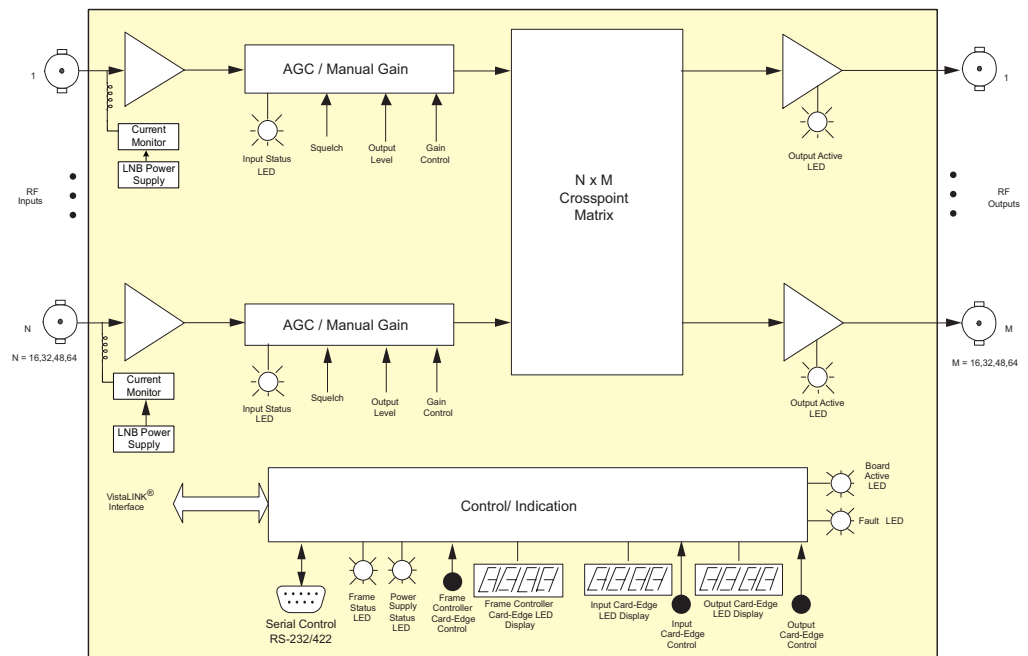
Physical:

Dimensions: 19" W x 10.5" H x 20.5" D (483 x 266 x 520mm)

Module Capacity: 4x input slots, 4x output slots

Weight: Approx. 17.4 lbs (7.9 kg) with two power supplies, no slots occupied;

approx. 32 lbs (14.5 kg) with two power supplies, all slots occupied



* All specifications over specified bandwidth unless otherwise noted.

XRF6

32x64, 64x64 RF Router Expandable to 512x512



Specifications (continued)

Compliance:

Safety: CSA listed to
CAN/CSA-C22.2
No. 60950-1-07,
Amendment 1:2011,
Amendment 2:2014
(MOD), ANSI/UL Std.
No. 60950-1-2011,
IEC 60950-1:2005
2nd Ed + A1:2009;
CAN/CSA-C22.2
No. 62368-1:14,
IEC 62368-1:2014,
UL 62368-1 2nd Ed.
EMI/RFI: Complies with FCC
Part 15, Subpart B EN
55022:1998 ICES-003

Ordering Information

XRF6L-FR-A	XRF6 6RU frame, 64x64 maximum intra-frame capacity, 75 Ohm BNC connectors
XRF6L-FR-A-F75	XRF6 6RU frame, 64x64 maximum intra-frame capacity, 75 Ohm F-Type connectors
XRF6L-FR-A-B50	XRF6 6RU frame, 64x64 maximum intra-frame capacity, 50 Ohm BNC connectors
XRF6L-FR-A-S50	XRF6 6RU frame, 64x64 maximum intra-frame capacity, 50 Ohm SMA connectors
Ordering Options:	
XRF6L-FC	Frame controller for PKGXRF6L systems
XRF6L-16OP	16 channel output card for PKGXRF6L systems, 75 Ohm
XRF6L-16OP-50	16 channel output card for PKGXRF6L systems, 50 Ohm
XRF6-16IP	16 channel input card for PKGXRF6S or PKGXRF6L systems, 75 Ohm
XRF6-16IP-50	16 channel input card for PKGXRF6S or PKGXRF6L systems, 50 Ohm
XRF6-16IP-LNB	16 channel input card for PKGXRF6S or PKGXRF6L systems, 75 Ohm, with 18VDC LNB power
XRF6-16IP-LNB-50	16 channel input card for PKGXRF6S or PKGXRF6L systems, 50 Ohm, with 18VDC LNB power
XRF6-PS-A	XRF6 power supply, 850W, for use in all XRF6L-FR-A series and XRF6S-FR-A series frames. Not compatible with non-A series frames.
X-NCP2	Router Control Panel

Contact Evertz Sales for other matrix sizes up to 512x512, as well as 50Ω BNC, SMA and F-Type connector options.