

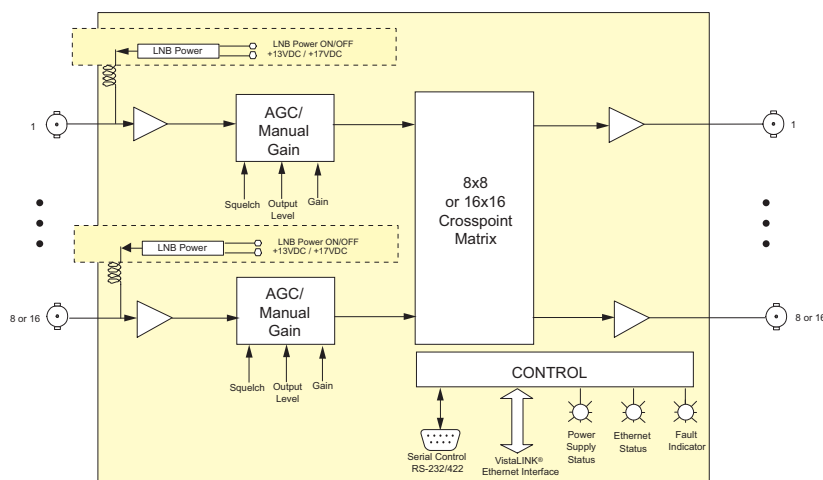


XRF1A with Local Control Panel (+LCP)

The XRF1A is an RF signal routing matrix for L-Band and IF satellite communications and other signals. Housed in a compact 1RU chassis and available in 8x8 or 16x16 matrix sizes, the XRF1A is a full-featured routing matrix with automatic or manual gain control and RF power meters on each input channel, as well as optional LNB power supplies. Advanced capabilities, such as salvos allow multiple matrix path changes with the push of a button.

The XRF1A features optional built-in and remote control panels for crosspoint control and system configuration. Additionally, this flexible routing matrix can be controlled, configured and monitored via serial control, SNMP control over Ethernet, Evertz' X-NCP2 panel, CP-22xxE series control panels, VistaLINK® PRO or other third-party control software.

The XRF1A 16x16 is scalable up to four units by connecting multiple frames in conjunction with Evertz' SRF series passive RF splitters/combiners, which provide matrix expansion without compromising system reliability.



Features & Benefits

- Future proof with 40–2500MHz 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
- Passcode protection for configuration parameters and destination locks
- Up to 8x programmable salvos
- Internal redundant power supply option
- LNB power generation option with short circuit protection
- Non-blocking, fan-out configuration
- Solid State matrix switching
- Automatic or manual gain control on all input channels
- External system expansion capability up to 32x32 using additional frames and Evertz' SRF series passive splitters/combiners
- RF power monitoring on all input channels
- Adjustable output level in AGC mode

XRF1A

RF Routers



Specifications

System:

Matrix Sizes: 8x8 or 16x16
 Impedance: 75Ω (50Ω optional)
 Connector Type: BNC per IEC 61169-8, Annex A (F-Type connector optional)

Gain Range (Manual):

-10dB to 12dB in 1dB steps

Output AGC Level: -20dBm to -50dBm

Bandwidth: 40-2450MHz

Flatness: ±1.5dB (850-2500MHz), ±2.5dB (40-2500MHz)

LNB Power:

Voltage: 18VDC, 13VDC, off (selectable)

Current: 400mA

Protection: Short circuit, overload

Communication & Control:

Serial: RS-232/RS-422 selectable

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

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

Electrical:

AC Input: Auto-ranging, 85-265V AC, 50/60Hz

Max. Power Consumption: 60W max. without LNB power option, 200W max. with LNB power option

Connector: IEC 60320 — 1 per power supply

Operating Temp.: 0-40°C

Physical:

Dimensions: 19" W x 1.75" H x 18.75" D (483 x 45 x 477mm)

Weight: Approx. 9.5 lbs (4.3 kg) with two power supplies, -LNB version

Compliance:

Safety: TUV listed to CAN/CSA-C22.2 No. 60065:2003, UL 60065:2007, IEC 60065:2001 + Amd 1:2005 EN 60065:2002, CAN/CSA-C22.2 No. 62368-1:2014, ANS/UL 62368-1:2014, EN 62368-1:2014 + A11:2017, IEC 62368-1:2014
 EMI/RFI: Complies with FCC Part 15, Subpart B EN 55022:1998 ICES-003

RF Specifications (40-2500MHz)

Frequency Response	Flatness over 36MHz	Isolation	RF Input Power	Max. RF Power	P1dB	OIP3	Noise Figure	1dB GCP	Return Loss
±1.5 dB (850-2500MHz), ±2.5dB (40-2500MHz)	±0.45dB	>60dB input to output, >75dB output to output and input to input	-10dBm to -70dBm	< 24dB (input), -10dBm (output)	+1dBm	+12dBm	6dB (1500MHz, gain = +12dB) typ.; 15dB (1500MHz, gain = 0dB) typ.	1dBm ±3 output power	75Ω: >13dB (input), >15dB (output); 50Ω: >13dB (input), >11dB (output)

Ordering Information

XRF1A-8x8	1RU 8x8 L-Band Router, 75 Ohm BNC connectors
XRF1A-8x8-LNB	1RU 8x8 RF Router, 75Ohm BNC connectors and LNB power supply
XRF1A-16x16	1RU 16x16 L-Band Router, 75 Ohm BNC connectors
XRF1A-16x16-LNB	1RU 16x16 L-Band Router with LNB Power Supply, 75 Ohm BNC connectors

Ordering Options:

+2PS	Redundant Power Supply
+LCP	Local Control Panel

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