

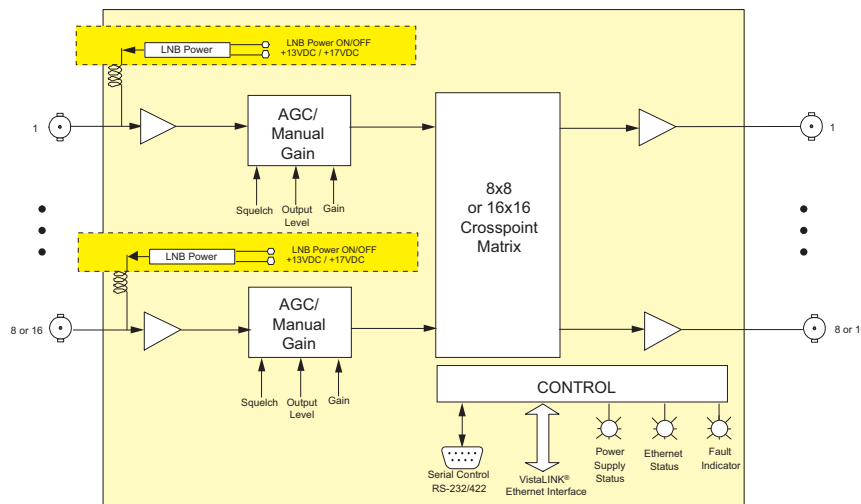
The XRF1A is an RF signal routing matrix for L-Band and IF satellite communications and other signals. Housed in a compact 1RU chassis and available in 8x8 or 16x16 matrix sizes, the XRF1A is a full-featured routing matrix with automatic or manual gain control and RF power meters on each input channel, 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-22xxxE series control panels, VistaLINK® 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
- 70/140MHz IF, L-Band, stacked L-Band and off-air DTV all in one platform
- Industry's best overall signal performance, preserving signal quality from input to output. Supports the strict performance requirements of advanced modulation formats needed for optimal transponder usage and ROI over time
- Passes all modulation formats
- Passcode protection for configuration parameters and destination locks
- Up to 8x programmable salvos
- Built-in control panel option
- Internal redundant power supply option
- LNB power generation option with short circuit protection
- Non-blocking, fan-out configuration
- Solid State matrix switching system reduces complexity, improves reliability and increases flexibility over manual patch bays
- 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
- Matrix crosspoint control using local control panel, X-NCP2 remote control panel, VistaLINK® or third party control software



### ►Specifications

<b>System:</b>	8x8 or 16x16	<b>P1dB:</b>	+1dBm	<b>Electrical:</b>	
<b>Matrix Sizes:</b>	8x8 or 16x16	<b>OIP3:</b>	+12dBm	<b>Max Power Consumption:</b>	Auto-ranging 85–265V AC, 50/60Hz
<b>Impedance:</b>	75Ω (50Ω BNC optional)	<b>1dB GCP (40–2500MHz):</b>	1dBm ±3 output power	<b>AC Input:</b>	60W max without LNB power option
<b>Connector Type:</b>	BNC per IEC 61169–8 Annex A (F-type connector optional)	<b>Return Loss (40–2500MHz):</b>	75Ω: >13dB (input), >15dB (output) 50Ω: >13dB (input), >11dB (output)	<b>Connector:</b>	200W max with LNB power option
<b>Gain Range (Manual):</b>	-10 to +12dB	<b>LNB Power:</b>		<b>Operating Temp.:</b>	IEC 60320 — 1 per power supply
<b>Output AGC Level:</b>	-20 to -50dBm	<b>Voltage:</b>	18VDC, 13VDC, off (selectable)		0–50°C
<b>Bandwidth:</b>	40–2500MHz	<b>Current:</b>	400mA	<b>Compliance:</b>	
<b>Flatness:</b>	±1.5dB (850–2500MHz) ±2.5dB (40–2500MHz)	<b>Protection:</b>	Short circuit, overload	<b>Safety:</b>	Complies with CE Low voltage directive
<b>RF Specifications:</b>		<b>Communication and Control:</b>		<b>EMC:</b>	Complies with FCC part 15, Class A Complies with EU EMC directive
<b>Frequency Response:</b>	±1.5dB (850–2500MHz) ±2.5dB (40–2500MHz)	<b>Serial:</b>	RS-232/RS-422 selectable	<b>Physical:</b>	
<b>Flatness over 36MHz:</b>	±0.45dB	<b>Ethernet:</b>	SNMP over IEEE 802.3/U (10/100BaseTx) RJ-45 connector	<b>Dimensions:</b>	19"W x 1.75"H x 18.75"D (483mm x 45mm x 477mm)
<b>Isolation:</b>	> 60dB input to output > 75dB output to output and input to input	<b>Control:</b>	Built-in front control panel, XNCP2, CP-2116E or CP-2232E control panels, VistaLINK®, MAGNUM or third party SNMP or serial interface	<b>Weight:</b>	Approx. 9.5lbs. (4.3kg) with 2x power supplies, -LNB version
<b>RF Input Power:</b>	-10dBm to -70dBm				
<b>Max RF Input Power:</b>	< 24dB				
<b>Max RF Output Power:</b>	-10dBm				
<b>Noise Figure:</b>	6dB (1500MHz, Gain = +12dB) typ 15dB (1500MHz, Gain = 0dB) typ				

\* All specifications over specified bandwidth unless noted

### ►Ordering Information

<b>XRF1A-8x8</b>	1RU 8x8 RF Router
<b>XRF1A-8x8-LNB</b>	1RU 8x8 RF Router with LNB power supply
<b>XRF1A-16x16</b>	1RU 16x16 RF Router
<b>XRF1A-16x16-LNB</b>	1RU 16x16 RF Router with LNB power supply

#### Ordering Options:

<b>+2PS</b>	Redundant power supply
<b>+LCP</b>	Built-in Front Control Panel

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