RF
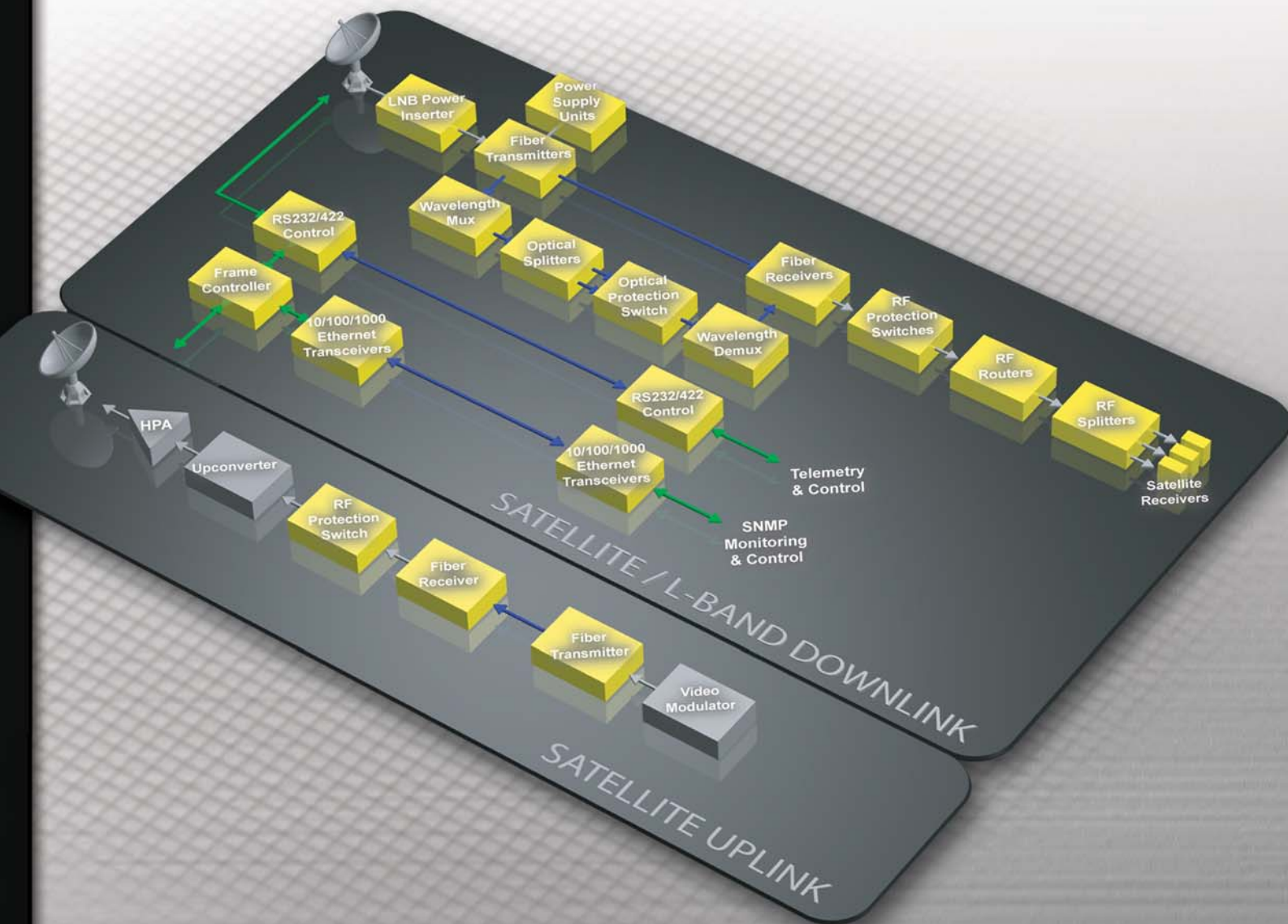
PRODUCT SOLUTIONS

Complete RF Signal Distribution, Management & Transport

From LNB to IRD, Evertz® offers a complete range of products for RF signal distribution, routing, transport, protection switching and LNB power. Solutions are available to cover L-Band and 70/140MHz signal ingest or uplink applications.

Diagram labels:
- LNB Power Inserter
- Power Supply Units
- Fiber Transmitters
- Wavelength Mux
- RS232/422 Control
- Frame Controller
- Optical Splitters
- Optical Protection Switch
- Fiber Receivers
- 10/100/1000 Ethernet Transceivers
- Wavelength Demux
- RF Protection Switches
- RS232/422 Control
- RF Routers
- 10/100/1000 Ethernet Transceivers
- RF Splitters
- Telemetry & Control
- Satellite Receivers
- SNMP Monitoring & Control
- SATELLITE / L-BAND DOWNLINK
- HPA
- Upconverter
- RF Protection Switch
- Fiber Receiver
- Fiber Transmitter
- Video Modulator
- SATELLITE UPLINK

XRF6

XRF1

XRF1A & XRF6 RF Routers

Designed for mission-critical applications, the XRF Series RF routers provide flexible routing, control and monitoring of RF signals. Industry leading characteristics for form factor, performance and reliability are combined with comprehensive monitoring & control. Advanced features include automatic (AGC) or manual gain control, input RF power monitoring, and wide bandwidth 70/140MHz IF off-air DTV and extended L-Band ranges.

XRF1A - 1RU 16x16 RF Router
• *Built-in user friendly front control panel*
• *Redundant power supplies*
• *Expandable to 32x32 (with 16x16 model)*

XRF6 - 6RU 64x64 Modular RF Router
• *All active components are front loading and hot-swappable*
• *Redundant power supplies and controllers*
• *Expandable to 512x512*

XRF Series Common Features
• *Highest density in the industry saving valuable rack space*
• *Wide passband allows 70/140MHz IF, extended L-Band and off-air DTV signals in a single product*
• *Low noise figure, high isolation (in/out, in/in, out/out)*
• *RF input power monitoring*
• *Manually adjustable & automatic gain control per channel*
• *Comprehensive monitoring & control via serial interface or SNMP/VistaLINK®*

Product Family Overview

Modular Series

Evertz® signal distribution, fiber transport, bypass protection and LNB power products provide high performance and advanced features such as RF & optical power monitoring, adjustable gain and SNMP monitoring & control. Front-loading, hot-swappable cards are backed by the security of redundant, hot-swappable power supplies. This provides high reliability, density and easy system expansion, reconfiguration and maintenance unmatched by non-modular, rackmount products.

7700FR

* All 7703, 7707 and 7708 products offer comprehensive monitoring and control via VistaLINK®/SNMP

Distribution Amplifiers/Splitters

7703DA4-RF - 1x4 Active RF Splitter
7703DA8-RF - 1x8 Active RF Splitter
• *Wideband 10MHz to 3GHz operation*
• *Built-in RF power meter*
• *Optional 13/17V DC LNB power with short circuit protection*
• *Adjustable gain*

7702SP2 - 1x2 Passive RF Splitter
7702SP4 - 1x4 Passive RF Splitter
• *Wideband 40-2200MHz operation*
• *Flat frequency response*
• *-LNB version passes DC power through both ports with steering diodes*

Protection Switches

7703BPX-LB - L-Band 2x1 Protection Switch
7703BPX-IF - 70/140MHz 2x1 Protection Switch
• *Main/standby switching scheme*
• *Intelligent auto-switching based on user-selectable RF threshold levels*
• *Manual control mode allows use as a 2:1 switch*

LNB Power

7703LPS-2 - Dual Port LNB Power Inserter
• *13/18V DC switchable*
• *Powers two LNBs at 400mA each*
• *22kHz tone for LNB local oscillator control*
• *RF input power monitoring*
• *LNB current monitoring to help detect LNB faults*
• *Active short circuit protection*

Fiber Transmitters & Receivers

7707LTA/LR - L-Band Fiber Tx/Rx
7707IFTA/IFRA - 70/140MHz IF Fiber Tx/Rx
• *950-2250MHz operation on L-Band version*
• *250-2250MHz wideband version for stacked signals*
• *30-200MHz operation on IF version*
• *Protocol independent - passes any modulation format*
• *Built-in optical and RF power meters*
• *13/17V DC LNB power with short circuit protection on L-Band version Tx*
• *Automatic or manual gain control modes*
• *1310nm, 1550nm, CWDM and DWDM transmitters available for short to long haul & multiplexing applications*
• *Standard and high-sensitivity receivers*

7708LRA - L-Band Fiber Rx
• *Companion Receiver to the 2408LT providing SmartMON™ capability*
• *Protocol independent - passes any modulation format*
• *Manual, automatic and intelligent gain control modes*
• *Standard and high sensitivity receivers*

7707CATVTA/CATVRA - CATV Fiber Tx/Rx
• *50-850MHz operation*
• *Full 80/110 PAL/NTSC channel load capability*
• *+8 and +11dBm laser power versions available*
• *Low CTB & CSO, high CNR*

Selector Switches

7703R8x1-RF - 1x8 switch
7703R16x1-RF - 1x16 switch
• *DC-3GHz bandwidth*
• *Low insertion loss, high return loss*
• *Bi-directional*

Evertz® also offers a complete line of related fiber optic products including CWDM & DWDM multiplexors, splitters, amplifiers, data transceivers and protection switches.

Contact Evertz® or see www.evertz.com for more information.

Product Family Overview

SRF3

2408LT & 2400PSU-8
Standalone fiber transmitters and power supplies for outdoor applications, offering advanced features including adjustable gain, AGC and SmartMON™ remote monitoring capability.

SRF1 Series - 1RU 1x2 or 1x4 Passive Splitter Array
SRF3 Series - 3RU 1x2 or 1x4 Passive Splitter Array
• Wideband 40-2200MHz operation
• Flat frequency response
• -20dB monitoring tap on each splitter
• High density - e.g. 16 1x2 splitters in 1RU, 64 1x2 splitters in 3RU
• Ideal for XRF Series router system expansion or other rackmount, high-density splitter/combiner applications

2408LT

2400PSU-8

2408LT - Standalone L-Band Fiber Tx
• Extended frequency response
• Compact standalone package with weatherproof option
• Protocol independent - passes any modulation format
• Wide dynamic range with flat frequency response
• High linearity, low noise
• Automatic or manual gain control
• SmartMON™ provides remote monitoring capability via SNMP without the need for a separate data connection to the 2408LT
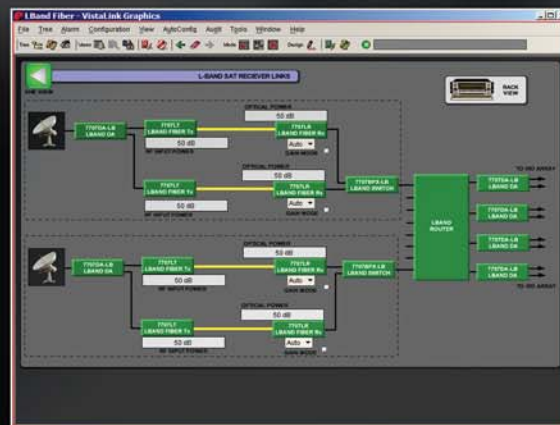
2400PSU-8 Eight Channel DC Power Supply
• Compact, weatherproof standalone enclosure
• Provides diode isolated DC outputs to power up to eight 240X fiber transmitters
• Dual, redundant internal power supplies with individual AC inputs
• Active, individual output short circuit and overload protection
• Power supply status is relayed to the 2408LT for complete system monitoring via SmartMON™ capability

SNMP Monitoring & Control
The VistaLINK® PRO product suite unites all Evertz® SNMP-based products and third-party systems under a single platform providing customized, detailed, monitoring and "real-time" equipment configuration via SNMP. VistaLINK® PRO PLUS provides an advanced user-configurable GUI for graphical renditions of the facility. Global views with "drill down" capability facilitate intuitive and straightforward access to all monitored equipment.

VistaLINK® PRO
• 100% SNMP based monitoring & configuration control
• Rich graphical interface with drill down & analysis capability
• Comprehensive alarm indication, logging and database management
• Web and scheduler clients
• Third party equipment support

For detailed product specifications and ordering information, please contact Evertz® sales or visit www.evertz.com

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