evertz

Evertz' award–winning 7800 family of multiframes provides flexibility in the truest form. With simultaneous processing capability of RF, Fiber, ASI, IP, 3G, HD/SD and more, these frames are designed to grow with the rapid changing needs of the facility and are available in a wide variety defined in the chart below.
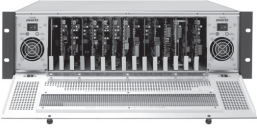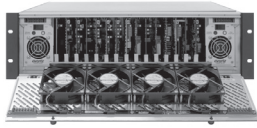
Standard features of all 7800 series multiframes include dual frame genlock providing a stable reference signal across the internal bus to all installed modules that minimizes the cost spent on genlock distribution, global frame status alarming to provide quick alert to operations in the event of a failure, and interchangeable modules between all frames (both processing module and companion rear plate).

Additionally all frames offer hot–swappable dual redundant power supplies that allow for power supply and fan replacement without compromising the integrity of critical signal paths and true remote monitoring of all modules and signals within the chassis via a VistaLINK frame controller. This configuration provides the SNMP network communication interface from the VistaLINK Network Management Software to the chassis over the local or wide area network.

Features & Benefits

- 7800FR(–QT) houses up to 15 processing modules in 3RU
- 7801FR houses up to four processing modules in 1RU
- Dual frame genlock for internal reference distribution
- Front extractable modules, power supplies and fans
- AC, DC and Hybrid AC/DC power supply configurations available
- Auto–ranging power supplies operating between 100–240V AC and 36–60V DC
- Backwards compatible with 7800/7700 series modules
- Frame status contact closure alarm in event of failure

Multiframe Comparison

	7800FR	7800FR–QT (Low Noise Option)	7801FR
Model	**7800FR**	**7800FR–QT** (Low Noise Option)	**7801FR**
Size	• Standard rack mountable 19" W • 3RU	• Standard rack mountable 19" W • 3RU	• Standard rack mountable 19" W • 1RU (uses 3RU rear plates)
Capacity	• Up to 15 single–slot modules in any combination	• Up to 15 single–slot modules in any combination	• Up to 4 single– or 2 dual–slot modules in any combination
Control	• True SNMP • VistaLINK® PRO via 7700FC/7800FC	• True SNMP • VistaLINK® PRO via 7700FC/7800FC	• True SNMP • VistaLINK® PRO via 7801FC
Air Flow Cooling	• Front to rear exhaust • Rear–mounted fans	• Front to rear exhaust • Front– and rear–mounted fans (reduced noise level)	• Front to side exhaust • Side–mounted fans
Power	• Up to 360W • 24W of power per slot	• Up to 360W • 24W of power per slot	• Up to 125W • 24W of power per slot

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Specifications

Power Supply Configuration:
Single PS: Standard with all frames
Dual/Redundant PS:
     Optional
Inlets: Separate inlets per PS

Electrical:
Voltage: Auto–ranging
7800FR (–QT):   100–240V AC, 50/60Hz
7801FR: 100–240V AC, 50/60Hz
7800FR–48VDC: 36–60V DC

Max. Operating Current:
7800FR (–QT):   4.6A @ 100V/60Hz
     1.85A @ 240V/50Hz
7801FR: 1.3A @ 100V/60Hz
     0.55A @ 240Hz/50Hz
7800FR–48VDC: 11A @ 48VDC

Max. Power Consumption/
Max. Module Load:
7800FR (–QT):   450W / 360W
7801FR: 125W / 110W
7800FR–48VDC: 450W / 360W

Fuses:
7800FR (–QT):   6.3A, 250V ceramic
     time delay, 5x20mm
     2 per PS
7801FR: 2.0A, 250V time delay,
     5x20mm 1 per PS
7800FR–48VDC: 12.0A, 250V ceramic
     time delay, 5x20mm
     1 per PS

Noise Level:
7800FR: -65dBA
7800FR–QT: -60dBA

Physical Dimensions:
7800FR: 19" W x 5.25" H x 14.5" D
     (483 x 133 x 368mm)
7800FR–QT: 19" W x 5.25" H x 15.75" D
     (483 x 133 x 400mm)
7801FR: 19" W x 1.75" H x 16" D
     (483 x 45 x 406mm)
7800FR–48VDC: 19" W x 5.25" H x 14.5" D
     (483 x 133 x 368mm)

Weight:
7800FR: 17.4lbs (7.9kg) empty
7800FR–QT: 18.5lbs (8.4kg) empty
7801FR: 10.0lbs (4.5kg) empty
7800FR–48VDC: 17.5lbs (7.9kg) empty

Common Specifications:
Status Indicators: Power supply status LED
     Local error failure LED
Tally Output Connector:
     4–pin terminal, relay N/O
     N/C for status/fault
     1A, 30V DC maximum
Safety: CSA Listed, C22.2 No.
     60065–03 including Am 1,
     UL 60065–2007,
     IEC 60065–(2001–12)
     7th Edition, Inc Am 1,
     Complies with CE
     low voltage directive
     2006/95/EC
EMC: Complies with FCC
     part 15 class A,
     Complies with EU EMC
     directive 2004/108/EC
Operating Temp.:   0–40°C
Humidity: 10–90% non–condensing
Ventilation: Fan–assisted

Genlock:
Number of Inputs: 2 BNC
Termination: 75Ω internal

Ordering Information

7800FR   3RU Multiframe Which Holds up to 15 Single Slot Modules with AC Power Supply

7800FR–QT   Quiet Multiframe with Intelligent Front Fan Cooling

7801FR   1RU Multiframe Which Holds up to 4 Single Slot or 2 Dual Slot Modules, Requires Rear Plate Option for Modules

7800FR–48VDC   3RU Multiframe with Frame Genlock & 360W 48VDC Input Power Supplies

7800FR–ACDC   3RU Multiframe with 360W AC and DC Power Supplies, Holds up to 15 Single Slot 7700 or 7800 Series Modules, Includes 1 AC Supply and 1 48VDC Power Supply

Ordering Options

+78P   Additional Power Supply for 7800FR Frame

+78PQT   Additional Power Supply for 7800FR–QT Frame

+781PS   Redundant Power Supply for 7801FR

+78PDC   Redundant Power Supply for 7800FR–48VDC Frame

Accessories

7800PS   Additional Power Supply for 7800FR Frame

7800PS–QT   Power Supply for 7800FR–QT

7801PS   Additional power supply for 7801FR

7800PS–48VDC   Additional Power Supply for 7800FR–48VDC Frame

7800RS–15   Rear support kit 15" for 7800 Frame

7700FC   Frame controller for 7700FR–C

7800FC   7700FR and 7800FR VistaLINK® Frame Controller (Includes VLPRO–C VistaLINK® PRO S/W Configuration Tool)

7801FC   Frame Controller for 7801FR

7800FR–QT–KIT2   Quiet Front Fan Retrofit Kit