

7800FR, 7701FR, S7701FR, S7702FR

7800 & 7700 Series Multiframes



7800FR



7701FR



S7701FR with Rackmount Tray

The 7800FR is a 3 rack unit high frame for the 7800 and 7700 series modular system. This advanced rack frame design can house up to 15 modules of any combination of the 7800 and 7700 series distribution, conversion, processing and synchronization modules. Special care was taken during the design process to ensure that the 7800FR meets the demanding needs of television studios today and has the sufficient flexibility to satisfy the emerging demands of the future.

The 7800FR is designed with a high density capacity to conserve on precious equipment rack space. Care has been taken to ensure sufficient thermal relief for up to 360 W of processing power per frame, to meet the increasing power demands of future high speed processing cards.

Hot swappable redundant switching power supplies and cooling fans allow power supply or fan replacement without compromising the integrity of critical signal paths. The 7800FR is available with auto ranging 100-240 VAC power supplies.

The front loading design permits extraction of the power supplies and active modules from the front without compromising performance even at 3.0Gb/s. Thus, there is no need for time consuming re-cabling nor is there need to have access to the rear of the frame to replace or exchange modules.

The Frame is available in several different versions as stated below.

Model	Description
7800FR	360W AC powered frame - rear cooling
7800FR-QT	360W AC powered frame - rear cooling with fans on front door to increase air flow and reduce overall fan noise
7800FR-48VDC	360W 48VDC powered frame - rear cooling
7800FR-ACDC	360W AC and 48VDC powered frame - rear cooling

►Features & Benefits

- Houses up to 15 processing modules
- Each slot has individually configurable inputs and outputs
- Front monitoring window for verifying module and power supply status. (not on -QT versions)
- Frame status contact closure alarm signals power supply or fan failures and user selectable module alarms
- Front extractable modules, power supplies and fans
- AC versions have auto-ranging power supply that operates from 100-240VAC at 50/60 Hz
- DC versions have auto-ranging power supply that operates from 36 to 60 VDC
- ACDC versions have one AC and one 48VDC power supply
- Power supply and frame cooling fans are fully redundant and hot-swappable.
- High-speed busing and control system provided for modular applications
- Slot 1 may be used for 7700FC VistaLINK® Frame Controller for SNMP control and monitoring
- 360W power supplies and cooling to support 7700 and 7800 series modules drawing up to 24 watts per slot. Frame is compatible with all 7700 series modules
- Two BNCs for connecting two separate genlock references for modules equipped to take a frame reference input

Single Module Standalone Enclosures

- Portable
- Powered by an external 12V DC adapter (included)
- S7701FR supports both single slot and dual slot modules
- S7702FR supports single, dual or triple slot modules
- Optional rack mount panel mounts 3 S7701FR enclosures in 1RU rack space



► Specifications

Electrical:

Power Supply Configuration:	
7800FR:	Standard single, optional dual, redundant, separate AC inlets
7800FR-48VDC:	Standard single, optional dual, redundant, separate DC inlets on terminal strips
7701FR:	Standard single, optional external redundant
S7701FR:	External power supply adapter
S7702FR:	External power supply adapter

Voltage:

7800FR:	Auto ranging, 100 to 240V AC, 50/60Hz
7800FR-48VDC:	Auto ranging 36 to 60VDC
7701FR:	Auto ranging, 100 to 240V AC, 50/60Hz
S7701FR:	12V DC Nominal Auto ranging, 100 to 240V AC power adapter included
S7702FR:	12V DC Nominal Auto ranging, 100 to 240V AC power adapter included

Maximum Operating Current:

7800FR:	4.6 A (@ 100 V/60Hz), 1.85A (@ 240 V/50Hz)
7800FR-48VDC:	11 A (@ 48 VDC)
7701FR:	1.5A (@120V AC), 0.8A (@240V AC)

Maximum Power Consumption:

7800FR Series:	450W
7701FR:	100W
S7701FR:	36W
S7702FR:	50W

Maximum Module Load:

7800FR Series:	360W (24W per slot)
7701FR:	80W (26W per slot)
S7701FR:	26W
S7702FR:	40W

Fuses:

7800FR:	6.3 amps, 250 Volt ceramic time delay 5 x 20 mm - 2 per power supply
7800FR-48VDC:	12 amps, 250 Volt time delay 5 x 20 mm - 1 per power supply
7701FR:	2 amp, 250V time delay 5x20mm - line and neutral Internal self resetting fuse
S7701FR:	Internal self resetting fuse
S7702FR:	Internal self resetting fuse

Certification:

Safety:	CSA Listed 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

Status Indicators (7800FR, 7800FR-48VDC & 7701FR only):

PSU status LED
Local Error/Failure LED

Tally Output

Connector:	4 pin terminal, relay N/O, N/C for status/fault alarm, 1A, 30 VDC max.
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Physical:

Dimensions:	
7800FR:	19"W x 5.25"H x 14.5"D (483mm W x 133mm H x 368mm D)
7800FR-48VDC:	19"W x 5.25"H x 14.5"D (483mm W x 133mm H x 368mm D)
7800FR-QT:	19"W x 5.25"H x 15.75"D (483mm W x 133mm H x 400mm D)
7701FR:	19"W x 1.75"H x 14.5"D (483mm W x 45mm H x 368mm D)
S7701FR:	5"W x 1.75"H x 14.5"D (127mm W x 45mm H x 368mm D)
S7702FR:	5.6"W x 2.6"H x 14.5"D (142mm W x 66mm H x 368mm D)
Temperature:	0-40°C

Module Capacity:

7800FR Series:	15 single slot modules
7701FR:	3 single or dual slot modules
S7701FR:	1 single or dual slot module
S7702FR:	1 single, dual or triple slot module

Weight:

7800FR Series:	32lbs (14.5kg) Full 17.4lbs (8kg) Empty
7701FR:	10lbs (4.5kg) Full 7lbs (3.1kg) Empty
S7701FR:	1.3lbs (.58kg)
S7702FR:	1.5lbs (.68kg)

► Ordering Information

7800FR	3RU Multiframe which holds up to 15 single slot modules with AC power supply
7800FR-QT	3RU Quiet Multiframe which holds up to 15 single slot modules with AC power supply
7800FR-48VDC	3RU Multiframe which holds up to 15 single slot modules with 48VDC power supply
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone frame which holds 1 single slot or 1 dual slot module with power supply
S7702FR	Standalone frame which holds 1 single, dual or triple slot with power supply

Ordering Options

+78P	Redundant power supply for 7800FR
+PSX	Optional external redundant power supply for 7701FR when ordered with frame
+78PQT	Redundant power supply for 7800FR-QT frame
+78PDC	Redundant power supply for 7800FR-48VDC frame

Accessories:

7800PS	Additional power supply for 7800FR
7800RS-15	Rear support kit 15" for 7800 Frame
7800PS-QT	Additional Power Supply for 7800FR-QT
7800PS-48VDC	Additional Power Supply for 7800FR-48VDC
7800FR-QT-KIT1	Kit to convert 7800FR with single PS to 7800FR-QT
7800FR-QT-KIT2	Kit to convert 7800FR with dual PS to 7800FR-QT
7701PSX	Optional external power supply for 7701FR for existing hardware
7701PS	Internal power supply for 7701FR (replacement or spare orders only)
S7701P	Rear connector plate for S7701FR standalone frame (price applies when ordered separately; discounted when ordered with module)
S7701FR-RP	Rackmount panel mounts 3xS7701FR enclosures in 1RU rack space

Note: Some 7700 and 7800 series modules cannot be accommodated in the 7701FR or standalone enclosures. See individual product brochure or contact factory