Selenio 6800+ Frame

Modular Signal Processing Platform

The pioneering and proven Selenio 6800+™ has been a popular modular signal processing platform with broadcasters around the world for well over a decade. Available with a range of cost-effective, single-purpose modules spanning the breadth of SDI processing, distribution, video conversion and frame sync to a range of fiber optics solutions, the platform also offers audio processing capabilities.

With Selenio 6800+, products are designed with an "application-centric per module" concept that ensures straightforward system designs with lower costs, higher performance and a solution to address a variety of requirements. The platform's high-density architecture supports up to 20 single-wide modules per 2RU frame — reducing frame count in your facility, and saving you rack space.

Whether you're handling audio, video or data, there's an affordable and reliable Selenio 6800+ processing solution designed to meet your specific needs.

Explore the Selenio Configurator Tool.

Benefits

- Maximize space and cost efficiencies with high-capacity architecture in a 2RU frame
- Broad product portfolio supports a variety of applications and formats
- Fiber solutions reliably transport high-bandwidth signals over any distance with pristine quality
- Effortless setup and configuration enabled by field-proven control and monitoring options

Features

Selenio 6800+™ Frame

- Direct Ethernet connectivity (10/100Base-T) to the frame, allowing reduced slot space and device control by SNMP third-party, HTTP Web browser and CCS™ applications
- Module communication via an internal high-speed data bus for thumbnail and enhanced alarm monitoring on Q-SEE™-compliant modules
- Capacity to hold up to 20 single-slot modules or equivalent, in any combination of module types
- Support for a wide array of input/output types, including analog video and audio, 3G\HD\SD\ASI-SDI, AES audio (balanced and unbalanced), fiber optics, Ethernet, serial data and RF
- Hot-swappable front and back modules with front access
- Backward-compatibility with all modules that operate on Selenio 6800+ QXF, XF and DM frames
- Light weight for outside broadcast applications
- Full Q-SEE support, including thumbnails, customizable alarms, waveform and vectorscope monitoring, and MPEG-4 streaming, for up to eight external inputs via the QSEE6800+HST module
- Frame video genlock loop, high-performance passive loop-through
- Support for two hot-swappable, redundant power supplies, each independently able to handle the complete frame power load (120 W); AC and DC power supplies can be mixed within one frame
- Integral fan cooling with front-to-back primary airflow designed to support full load at 122° F (50° C) ambient, with no thermal stacking limitations
- A variety of control methods to suit every operational environment: card-edge, CCS Navigator (PC-based control over Ethernet), HTTP Web browser, or third-party control systems via published SNMP MIBs for Selenio 6800+ modules

Specifications

FR6822+QXFE FRAME	
Dimensions (H x W x D)	3.5 x 19 x 11.5 in. (8.8 x 48.3 x 29.2 cm)
Weight	9 lbs (4.08 kg) empty 12 lbs (5.44 kg) with two power supplies

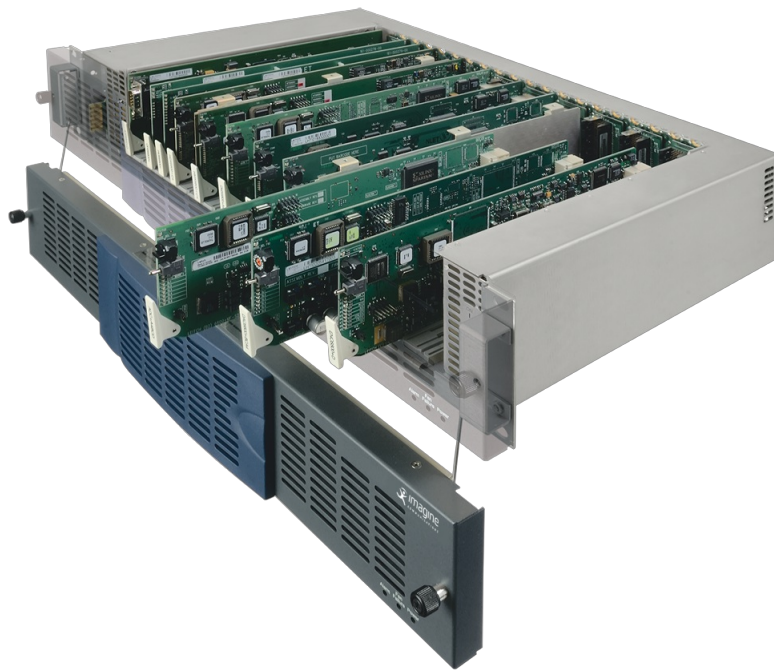| 6822+AC POWER SUPPLY	
Dimensions (H x W x D)	3.35 x 1.45 x 11.25 in. (8.51 x 3.68 x 28.58 cm)
Weight	1.9 lbs (0.85 kg)
Minimum Load	No load
Temperature Range	32° to 113° F (0° to 45°C)
Input Voltage	100 to 250 VAC (±10%)
Frequency	47 to 63 Hz
Input Current	2 ARMS maximum at 90 VAC, 120 W output power 0.75 ARMS maximum at 274 VAC, 120 W output power
Inrush Current (maximum peak)	25 A
Output Power	130 W (including fans)
EMC	Compliant with FCC part 15 class A, EN 55103-1 and EN 55103-2
Safety	Meets UL 60950, CAN/CSA 22.2 No. 60950 and EN 60950
6800+48V POWER SUPPLY	
Dimensions (H x W x D)	3.35 x 1.45 x 11.25 in. (8.51 x 3.68 x 28.58 cm)
Weight	1.9 lbs (0.85 kg)
Operating Temperature Range	32° to 113° F (0° to 45° C) at full rated output
Inputs	-36 to -72 V DC
Output Power	130 W (including fans)
Protection	Inrush current limiting Input transient protection Short-circuit protection on all outputs Reverse input voltage protection Input fuse
EMC	Compliant with FCC part 15 class A, EN 55103-1 and EN 55103-2
Safety	Meets UL 60950, CAN/CSA 22.2 No. 60950 and EN 60950
SELENIO 6800+ETH	
Power Dissipation	8.4 W
Ethernet	RJ45, 10/100 Mb/s
Connectors	75 ohms, shunt terminated

Ordering Information

Frames with AC PSU	
FR6822+QXFE	Frame, 2RU, Ethernet resource card including HTTP protocol for communication, no back, all blanks with fan (includes one 6822+AC power supply), Q-SEE compliant
FR6822+F	Frame, 2RU, no back, all blanks with fan (includes one 6822+AC power supply)
Frames with DC PSU	
FR6822+QXFE+S48	Frame, 2RU, Ethernet resource card including HTTP and SNMP protocols for communication, no back, all blanks with fan (includes one 6800+48 VDC power supply), Q-SEE compliant
Options	
6800+ETH	Ethernet resource card for FR6822+F, CCS-compliant
6800+ETHSNMP	6800+ETH module with SNMP option enabled

6800+OPT+SNMP	Software license-key upgrade to existing 6800+ETH to provide SNMP support
6822+AC	AC power supply for FR6822+ series frames
6800+48V	48 VDC power supply for FR6822+ series frames
FR6822+RM	Rear support extension rail for 6800+ series frame

Note:

All FR6822+QXFE frames come equipped with a single power supply (ordered as either AC or 48 V DC) and an Ethernet resource card with an HTTP web server. The HTTP Web server allows any standard Web browser access directly to the frame for configuration and control.
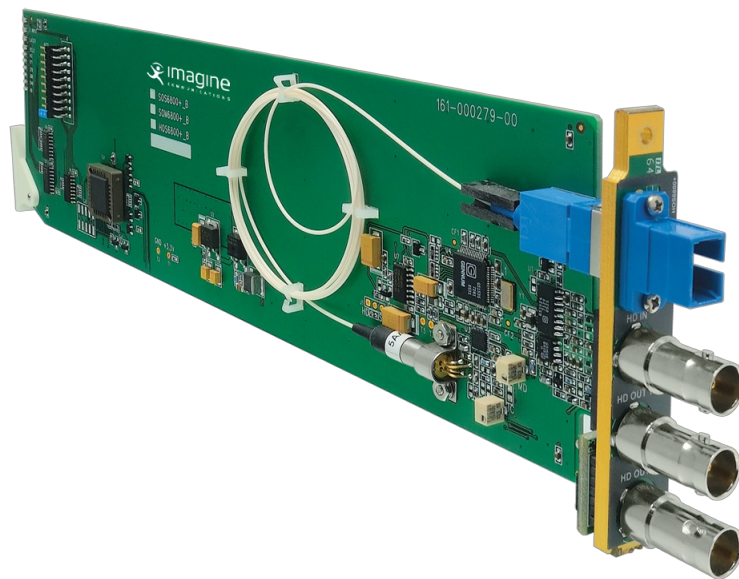
Images/Diagrams

Selenio 6800 open showing how the module cards slot into the system

2RU hardware for Selenio 6800 processor

Selenio 6800 module card