FR6822+QXFE

2RU 6800+ Frame, Q-SEE™ Compliant

The new FR6822+QXFE, featuring an integrated Ethernet resource card, is the next-generation platform in the best-selling 6800+™ modular core processing series This frame is designed to offer broadcast facilities advanced baseline communication and control of their networks via a built-in Web server.

The FR6822+QXFE frames are capable of housing any mix of signal types, including HD-SDI, SDI, DVB-ASI, SMPTE-310M, single-mode and multi-mode fiber optics, AES/EBU (balanced and unbalanced), analog video and analog audio. There are 20 slots for single- or multi-slot modules, with mating back connectors providing superior density of up to 20 modules in a single 2RU frame.

Every shipment of the FR6822+QXFE frame includes an Ethernet resource (controller) card, an HTTP Web server for control, a single power supply source (ordered as either AC or 48 V DC) and a 30-day trial version of CCS Navigator™ (Windows®-based network control application).
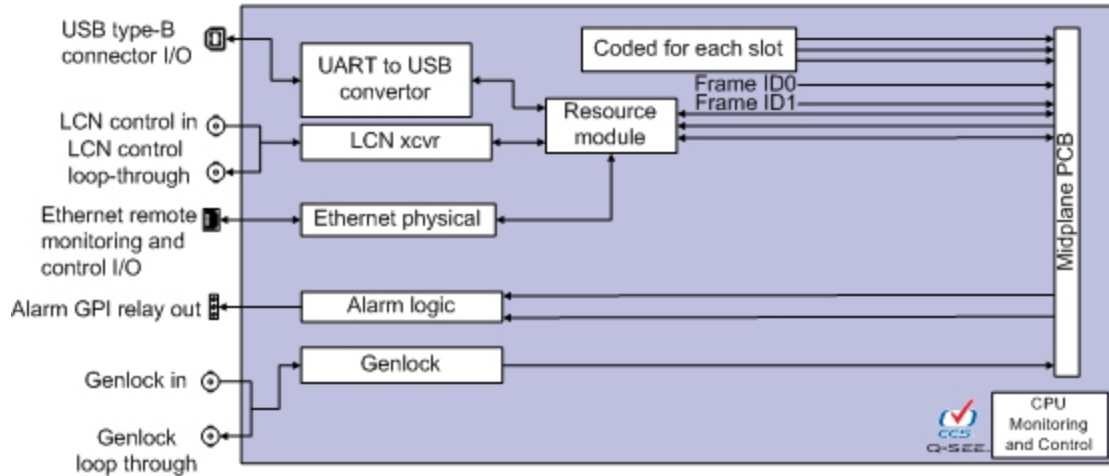
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- Q-SEE.

FEATURES

- Direct Ethernet connectivity (10/100BT) 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, SDI, HD-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 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 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 6800+ modules

IMAGES/DIAGRAMS

Block Diagram

SPECIFICATIONS

Specifications and designs are subject to change without notice.

FR6822+QXFE Frame:

Dimensions	Height: 3.5" (8.8 cm)
	Width: 19" (48.3 cm)
	Depth: 11.5" (29.2 cm)
	Weight: 9 lbs (4.08 kg), empty, 12 lbs (5.44 kg), with two power supplies

6800+AC Power Supply:

Dimensions	Height: 3.35" (8.51 cm)
	Width: 1.45" (3.68 cm)
	Depth: 11.25" (28.58 cm)
	Weight: 1.9 lbs (0.85 kg)

Minimum Load	No load
Temperature Range	32°F (0°C) to 113°F (45°C)
Input Voltage	100 to 250 V AC (±10%)
Frequency	47 to 63 Hz
Input Current	2 A rms maximum at 90 V AC, 120 W output power
	0.75 A rms maximum at 274 V AC, 120 W output power
Inrush Current (max 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	Height: 3.35" (8.51 cm)
	Width: 1.45" (3.68 cm)
	Depth: 11.25" (28.58 cm)
	Weight: 1.9 lbs (0.85 kg)
Operating Temperature Range	32°F (0°C) to 113°F (45°C) at full rated output
Inputs	-36 to -72 VDC
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

6800+ETH:

Power Dissipation	8.4 W
Ethernet	RJ-45, 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 6800+ AC power supply), Q-SEE compliant

FR6822+QXFE+S   Frame, 2RU, Ethernet resource card including HTTP and SNMP protocols for communication, no back, all blanks with fan (includes one 6800+ AC power supply), Q-SEE compliant

FR6822+F   Frame, 2RU, no back, all blanks with fan (includes one 6800+ AC power supply)

Frames with DC PSU:

FR6822+QXFE+48   Frame, 2RU, Ethernet resource card including HTTP protocol communication, no back, all blanks with fan (includes one 6800+ 48 V DC power supply), Q-SEE compliant

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 V DC power supply), Q-SEE compliant

FR6822+F+48   Frame, 2RU, no back, all blanks with fan (includes one 6800+ 48 V DC power supply)

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

6800+AC   AC power supply for FR6822+QXFE

6800+48V   48 V DC power supply for FR6822+QXFE

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.

CONTACTS

North America	Caribbean and Latin America	Europe, Middle East & Africa	Asia, Pacific Rim
+1 800 231 9673	+1 786 437 1960	+44 (0) 118 964 8200	+852 2776 0628