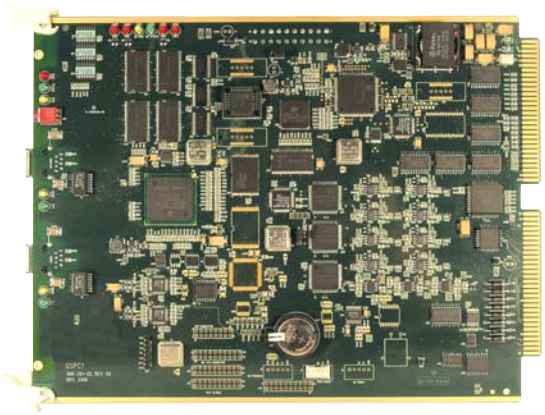
Quantum MULTICOM IP

Processor Card
Model QSPC1



Description

The Quantum Model QSPC1 Processor Card is required to operate the Quantum Multicom IP system. The card contains a PowerPC CPU, 12 channels of DSP, nonvolatile flash memory, and two Ethernet Local Area Network (LAN) interfaces. The card is responsible for all system control, tone generation, and display functions. The card also contains a crystal-controlled real-time clock (with battery backup), relay driver circuits, external function inputs, audio tone synthesizer, and voltage supervision circuits. The QSPC1 may be used to upgrade existing Multicom 2000® Administrative Communications systems.

Features

- TCP/IP Web server for Quantum Commander programming over the LAN
- One 10/100 Ethernet port for network connection allowing system configuration, control, and VoIP communications
- Second port for direct-to-PC programming access
- Flash memory allows program upgrades
- Complete system configuration data held in nonvolatile memory on each QSPC1 in system
- 12 DSP Channels per processor for VoIP audio
- Crystal-controlled real-time clock with battery backup
- Automatic Daylight Savings Time correction
- Audio tone synthesizer
- External relay drivers
- Ring/Busy generator
- Dial Tone generator
- Media control of VCRs, DVDs, and video-on-demand

Architect and Engineer Specifications

A minimum of one Model QSPC1 Processor Card shall be required per Quantum Multicom IP system. The QSPC1 shall have an advanced PowerPC CPU with networking capabilities, and shall provide nonvolatile flash memory to hold operating software, system configuration data, and operating data. The card shall contain two Ethernet LAN interfaces. The card shall be responsible for all system control, tone generation, and display functions.

A web server built into the processor card provides installers, administrators, and users with remote access to the Quantum Commander control and configuration functions through generic browser software. Three levels of access limit what users are able to see and do. Administrators may use the Administrative Display Phone or Quantum Commander to control many system functions including triggering manual tones, triggering external relays, and playing emergency audio files.

The card shall also contain the crystal-controlled real-time clock (with battery backup), relay input and output driver circuits, external function inputs, audio tone synthesizer, and voltage supervisor circuit with reset function. The card shall be installed in the first slot of the mainframe assembly. The card shall operate in ambient temperatures up to 120° F (49° C).

Technical Specifications

Maximum Ambient Temperature:	120° F (49° C)
Dimensions:	10-9/16" W x 8-1/8" H x 5/8" D
Power:	MC512A Power Supply (sold separately)

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