



Compact Rack System Models QCR24 and QCR48

Description

The Quantum Compact Rack System is a fully self-contained school communications solution that can also function as a node in a larger Quantum Multicom IP network. The QCR24 and QCR48 are designed to mount easily in existing IT equipment racks and to allow convenient, economic distribution of Quantum nodes throughout a facility.

Each model includes a separate, rack-mounted relay card that gives the system a capacity of 24 stations (1 card, QCR24) or 48 stations (2 cards, QCR48). In addition, each model supports up to 10 administrative VoIP phones (model QSIP1).

Features

- Ideal for use as remote nodes in distributed systems
- QCR24 Services 34 stations, QCR48 services 58 stations (each with 10 VoIP phone stations)
- 32 Schedules, including calendar-based holiday schedules
- 1,024 Separate schedule events per facility
- 64 Multipurpose time, paging, and security zones per facility
- Rack mount installation, 5 rack spaces (QCR24) or 6 rack spaces (QCR48) high
- Built-in power supplies and card cage
- Audio program interface assembly accepts up to 4 Bogen Advanced Input Modules
- Can be combined with up to 63 additional Quantum processor nodes
- Up to 250 watts of external amplification can be added for each 24-station relay module

Technical Specifications

Maximum Ambient Temperature: 120° F (49° C)
Dimensions: 19" W × 8.75" (5 R.U.) H × 16" D, incl. 1 relay module (QCR24)
19" W × 10.5" (6 R.U.) H × 16" D, incl. 2 relay modules (QCR48)
Power: 115V AC, 6.0A, 60 Hz



Specifications subject to change without notice.
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QCR24

QCR Chassis with Card Cage and:

**System
Components**

1	QSPC1	Quantum Processor Card
1	MCSC	Station Card – 1 per 24 Stations
1	MCACB	Analog Card – 1 per 24 Stations
1	MC512A	5V/12V Power Supply
1	MC2626B	± 26V Power Supply
1	MCAPI2	Audio Program Input Module Bay
1	MCRRP	Relay Card Module with Rack Mount Panel
1	MCRCA	Ribbon Cable Set
1	ACFDS	AC Line Filter/Distribution Strip

QCR48

QCR Chassis with Card Cage and:

1	QSPC1	Quantum Processor Card
2	MCSC	Station Card – 1 per 24 Stations
2	MCACB	Analog Card – 1 per 24 Stations
1	MC512A	5V/12V Power Supply
1	MC2626B	± 26V Power Supply
1	MCAPI2	Audio Program Input Module Bay
2	MCRRP	Relay Card Module with Rack Mount Panel
2	MCRCA	Ribbon Cable Set
1	ACFDS	AC Line Filter/Distribution Strip

QCR48T

Same components as QCR48, but with one MCSC Station Card instead of two

**Architect and
Engineer
Specifications**

The unit shall be the Quantum QCR24 or QCR48. The QCR24 shall use 1 relay card and support up to 34 stations (24 plus 10 VoIP phones). The QCR48 shall use 2 relay cards and support 58 stations (48 plus 10 VoIP phones). The QCR48T shall be composed of the same equipment as the QCR48, minus one MCSC station card. Each model shall accept up to 4 Bogen Advanced Input Modules for audio program interface. The QCR24 and QCR48 shall each contain a built-in master clock with 32 schedules, including calendar-based holiday schedules, and up to 1,024 programmable events per facility. Each unit shall be capable of serving 64 multipurpose time/paging/security zones.

Each model can function independently or serve as a node in a network of up to 63 additional Quantum Multicom IP processor systems.

Each unit shall operate in ambient temperatures up to 120° F (49° C).

Each unit shall install in a standard 19" rack mounting system. Dimensions shall be 19" W × 8.75" (5 R.U.) H × 16" D (QCR24) and 19" W × 10.5" (6 R.U.) H × 16" D (QCR48).