



Rack Mount, Wall Mount, and Compact Rack Mount



Rack Mount



Wall Mount



**Compact
Rack Mount**

Description

Bogen's **Quantum Multicom IP** is a comprehensive communications network that connects administrative areas and staff locations in a single building, multiple building sites throughout a campus, or an entire school district. Quantum enables facility- or district-wide mass notification, paging to zones or select point-to-point communications. Emergency notification, direct-dial 911, emergency alarm tones, pre-recorded messages and network time synchronization are possible, and Quantum also supports media control of VCRs and DVDs. The system nodes are interconnected using existing network infrastructure. In many installations this greatly reduces the need for additional home-run wiring, conduit, trenching, surge protectors, and associated installation costs.

Quantum is highly scalable, with as many as 64 processor nodes combining to serve up to 16,000 stations per facility, and with up to 99 facilities possible in a Quantum district. The system handles up to 960 central office telephone lines, and up to 512 non-blocking calls and pages. Distributed facility architecture allows deployment of the right combination of hardware for any facility's needs.

Quantum Rack system node – supports up to 250 stations.

Quantum Wall-Mount system node – supports up to 130 stations. Space-saving wall-mount design.

Quantum Compact Rack system node – supports up to 58 stations in a compact, six-rack-space design. Easily mounts in existing IT equipment racks. Allows economic distribution of Quantum nodes throughout a facility.

Quantum Commander function is resident on each processor card. System administrators use Quantum Commander to configure the system via secure, browser-based access.

System Features

- Network interconnected nodes allow distribution of hardware throughout a facility, reducing long cable runs
- Highly scalable, 1 to 64 nodes support 34 to 16,000 stations per facility
- Up to 99 facilities interconnected to form a district
- All-Calls throughout a facility or across an entire district, or point-to-point communications between any two stations
- 32 Schedules, including calendar-based holiday schedules
- 1,024 Separate schedule events per facility
- 64 Multipurpose time, paging, and security zones per facility
- Any combination of Administrative Display Phone, Administrative VoIP Phone, Administrative Phone, call switches, speakers, or media control
- User-supplied audio files can be played back as emergency-level All-Call announcements
- Allows voice calls, time tones, media, and emergency announcements to travel along the network, wired or wireless
- Network time synchronization
- Four dedicated alarm tones



Specifications subject to change without notice.
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**User
Features**

- Station Call Rollover forwards calls to in-room speaker if telephone is busy
- Administrative Display Phone groups automatically forward calls if destination phone is not answered
- Direct-dial 911 feature speeds emergency calls and helps administrators pinpoint the station making the call
- Choice of distinctive tones for scheduled events like class change, as well as dedicated emergency alarm tones
- Security zones may be connected to door or motion sensors to alert administrator stations of activity in specified areas
- Media control of VCRs and DVDs
- Designated student phones allow outgoing calls while limiting abuse of privilege

**Tech
Features**

- System nodes are interconnected using existing network infrastructure
- Nodes function independently during network outage
- Quantum nodes store duplicate databases so critical system information is not lost during network outage
- Real-time programming and control from any PC with network access
- Fail-safe feature can be hard wired to each node in a building allowing emergency mass notification
- Backwards compatibility allows Quantum to work with existing Multicom 2000® hardware
- Quantum connects to public switched telephone network via analog CO trunks

**Technical
Specifications**

Capacity:	34 to 250 Stations (Rack Mount System) 34 to 130 Stations (Wall-Mount System) 58 Stations (Compact Rack Mount System QCR48) 34 Stations (Compact Rack Mount System QCR24) Up to 64 Nodes per facility Up to 16,000 stations per facility Up to 99 interconnected facilities per district Up to 512 Non-blocking calls and pages Up to 960 Loop start central office phone lines 32 Schedules, including calendar-based holiday schedules 1,024 Separate schedule events per facility 64 Multipurpose time, paging, and security zones per facility 19 Unique station device types 32 Assignable classes of service
Connectivity:	1 LAN Port per node
Configuration:	Via browser-based Quantum Commander program 3 Access levels (access dependent on user credentials)
Maximum Ambient Temperature:	120° F (49° C)
Dimensions:	19" W × 26.25" H* × 16" D (Rack Mount) 24" W × 32" H × 10" D (Wall Mount) 19" W × 8.75" H × 16" D (QCR 24) 19" W × 10.5" H × 16" D (QCR 48)

*Height of Rack Mount System depends on configuration ordered

**Architect &
Engineer
Specifications**

Please see www.bogen-es.com/quantum/documentation/ for Architect & Engineer Specifications.

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