

QC 101

CONTROLLER FOR QUANTUM ELITE AND QUANTUM CONNECT VIDEOWALL PROCESSORS

- ▶ Compact, rack-mountable controller for Quantum® Elite and Quantum Connect videowall processors
- ▶ Preinstalled Quantum Control Software
- ▶ QC 101 E controls up to eight Quantum Elite processors for large videowalls
- ▶ Automated controller startup and connection to Quantum processor
- ▶ Easily integrates into a control system to provide simplified videowall operation
- ▶ Embedded, write-protected operating system
- ▶ 80 GB solid state drive
- ▶ Front panel LED indicators for power status, SSD, and LAN activity
- ▶ DisplayPort, HDMI, and VGA outputs



The Extron QC 101 is a dedicated controller for Quantum Elite and Quantum Connect videowall processors. It offers an alternative to a traditional PC, with a compact, rack-mountable enclosure, dependable solid state storage, and an embedded, write-protected operating system. With the preinstalled Quantum Control Software, the QC 101 is ready out of the box for integration with Quantum processors.



Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **QC 101 E** and **QC 101 C** are dedicated controllers for Quantum Elite and Quantum Connect videowall processors. They feature a small form factor enclosure, with an embedded operating system and Quantum Control Software preinstalled on a solid state drive. The QC 101 offers an alternative to a traditional PC that is compact, reliable, easy to install, and easy to use. Quantum processor configurations can be programmed on the QC 101, or on a standard PC and then migrated to the QC 101. A display, keyboard, and mouse connect to the QC 101 for setup and configuration, and can be removed after system commissioning. The QC 101 easily integrates with a control system to provide simplified videowall operation. For large videowalls, up to eight Quantum Elite processors can be controlled from a single QC 101 E through a network switch.

KEY FEATURES

- ▶ **Compact, rack-mountable controller for Quantum Elite and Quantum Connect videowall processors** – The QC 101 provides a convenient solution for Quantum control and configuration programming, in a rack-mountable enclosure that occupies minimal space.
- ▶ **Preinstalled Quantum Control Software** – Simplifies onsite integration by eliminating the need to download and install Quantum Control software.
- ▶ **QC 101 E controls up to eight Quantum Elite processors for large videowalls**
- ▶ **Automated controller startup and connection to Quantum processor**
- ▶ **Easily integrates into a control system to provide simplified videowall operation** – An RS-232 control port enables the use of serial commands for integration into a control system.
- ▶ **Embedded, write-protected operating system** – Provides a stable operating platform that is resistant to viruses or other operating system corruption.
- ▶ **80 GB solid state drive** – Delivers long-term operational reliability while reducing the risk of drive failure.
- ▶ **Front panel LED indicators for power status, SSD, and LAN activity** – Provide immediate visual feedback when monitoring essential operations of the QC 101.
- ▶ **DisplayPort, HDMI, and VGA outputs**
- ▶ **Two Ethernet ports** – The QC 101 can connect directly to a Quantum processor, or into a network for controlling a system of multiple Quantum Elite processors. Either of the two Ethernet ports may be used for communication.
- ▶ **Two USB interfaces** – Allow connection of a keyboard and mouse for Quantum Control Software navigation, or a USB flash drive for uploading a Quantum configuration file.

SPECIFICATIONS

HARDWARE		
Processor	Intel Celeron 2.42 GHz	
RAM	4 GB DDR3	
Storage	80 GB SSD	
SOFTWARE		
Operating system	Windows Embedded 8	
Other software		
QC 101 E	Quantum Elite control and configuration software for Windows	
QC 101 C	Quantum Connect control and configuration software for Windows	
NOTE: The operating system is hard-coded into the QC 101 and Windows updates are not required. The C drive, which contains the operating system, is write-protected to prevent unauthorized access.		
COMMUNICATION – CONTROL		
Serial control port	RS-232 on 1 captive screw connector on rear panel	
Baud rate and protocol	9600, 8-bit, 1 stop bit, no parity (default)	
Pin configurations	1 = Tx, 2 = Rx, 3 = Gnd	
Program control	Extron R-type Command Protocol	
Ethernet control ports	2 female RJ-45 connectors	
Ethernet data rate	10/100/1000Base-T, half/full duplex with auto-detect	
Protocols	ARP, DHCP, ICMP (ping), TCP/IP, Telnet, SMTP	
COMMUNICATION – SETUP		
Number/signal type	1 HDMI 1 DisplayPort 1 RGBHV	
Connectors	1 female HDMI 1 female DisplayPort 1 female 15-pin HD	
Vertical frequency	24 Hz to 60 Hz	
Resolutions	640x480 to 1920x1200	
USB control ports	1 female USB mini B on front panel 2 female USB type A on rear panel	
USB standards	USB 3.0, USB 2.0, USB 1.1, USB 1.0 compatible	
GENERAL		
Power supply	Internal Input: 100-240 VAC, 50-60 Hz	
Cooling	Fan, front to back	
Mounting		
Rack mount	Yes, with optional rack shelf	
Enclosure type	Metal	
Enclosure dimensions	1.66" H x 8.75" W x 12.0" D (1U high, full rack wide) (4.2 cm H x 22.2 cm W x 30.5 cm D) (Depth excludes connectors and knobs.)	
Regulatory compliance		
Safety	CE, c-UL, UL	
EMI/EMC	CE, FCC Class A, ICES, VCCI	
Warranty	3 years parts and labor	
NOTE: All nominal levels are at ±10%.		
Model	Version Description	Part number
QC 101 E	Quantum Elite Controller	60-1579-01
QC 101 C	Quantum Connect Controller	60-1579-02

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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