

Specifications

Quantum® Connect 82 and 84

Video input

Number/signal type.....	8 HDMI (HDCP compliant)
Connectors.....	8 female HDMI
Horizontal frequency	31 kHz to 100 kHz
Vertical frequency.....	24 Hz to 85 Hz
Resolution range.....	640x480 to 1920x1200, 480p, 576p, 720p, 1080i, or 1080p
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI 1.4, HDCP 1.3

Video processing

Maximum data rate	4.95 Gbps (1.65 Gbps per color)
Digital sampling.....	24 bit, 8 bits per color, 165 MHz pixel clock
Colors	16.78 million (8 bit processing)

Video output

Number/signal type	
Quantum Connect 82.....	2 HDMI (HDCP compliant)
Quantum Connect 84.....	4 HDMI (HDCP compliant)
Connectors	
Quantum Connect 82.....	2 female HDMI
Quantum Connect 84.....	4 female HDMI
Vertical frequency.....	50 Hz, 60 Hz
Scaled resolutions.....	640x480 ^{1,2} , 800x600 ^{1,2} , 848x480 ^{1,2} , 1024x768 ^{1,2} , 1152x870 ^{1,2} , 1280x768 ^{1,2} , 1280x800 ^{1,2} , 1280x1024 ^{1,2} , 1360x768 ^{1,2} , 1366x768 ^{1,2} , 1440x900 ^{1,2} , 1400x1050 ^{1,2} , 1408x1050 ^{1,2} , 1600x1200 ^{1,2} , 1680x1050 ^{1,2} , 1920x1200 ^{1,2} HDTV: 720p ^{1,2} , 1080p ^{1,2} ¹ = at 50 Hz, ² = at 60 Hz
Standards	DVI 1.0, HDMI 1.4, HDCP 1.3

Communications – processor/decoder/scaler

Ethernet ports.....	1 female RJ-45 connector for control, networked
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	IP, TCP
Ethernet default settings	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Gateway = 0.0.0.0 DHCP = not supported
Storage.....	80 GB (1 IDE drive)
Internal operating system	Microsoft® Windows® XP® embedded
Program control	Extron Quantum Connect control/configuration software for Windows

NOTE: The operating system is hard-coded into the Quantum Connect and Windows updates are not required. The C drive, which contains the operating system, is write protected to prevent unauthorized access.

Communications — setup and troubleshooting

Number/signal type.....	1 analog VGA-UXGA RGBHV local monitor 2 USB 1 PS/2 mouse and keyboard
Connectors	1 female 15-pin HD 2 USB type A 1 female PS/2 (6-pin mini DIN) (Breakout cable to 2 PS/2 connectors is included.)
USB standards	USB 2.0, low speed

General

Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption.....	300-500 watts (varies with configuration)
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 85%, noncondensing Operating: +35 to +95 °F (5 to +35 °C) / 10% to 85%, noncondensing
Cooling	Fans, front to rear
Thermal dissipation.....	300-900 BTU/hr (varies with configuration)
Mounting	
Rack mount.....	Yes
Enclosure type	Metal
Enclosure dimensions	7.0" H x 17.1" W x 19.3" D (4U high, full rack wide) (17.8 cm H x 43.3 cm W x 49.0 cm D) (Depth excludes connectors and handles. Width excludes built-in rack ears.)
Product weight	41 lbs (18.6 kg)
Shipping weight	52 lbs (24 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC.....	CE, FCC Class A
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE.
Warranty	3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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