



epica
256

epica
128

Epica Series Matrix Switchers

- I/O range to 128 x 128 (Epica-128) or 256 x 256 (Epica-256) per signal type
- Fully modular in increments of 16 inputs/outputs
- 300 MHz Ultra-Wideband bandwidth - fully loaded
- Powerful 32-bit processor with Virtual Matrix™ I/O mapping
- Routes high-resolution RGB, S-Video, Component HDTV, Composite, Y/C, YUV, Mono and Multi-Channel Audio, Serial Digital Audio, Serial Digital Video, and more

Applications -

Command/Control
Centers

Distance Learning
Systems

Videoconferencing
Systems

 **AUTOPATCH™**

Flexible

Modular in increments of 16 inputs and/or outputs up to a maximum of 128 or 256 per signal type.

I/O boards for routing high-res RGB, Y/C, S-Video, YUV, Composite, HDTV, mono and multi-channel audio, and Serial Digital to 270 Mb/s.

Modular boards are hot-swappable and feature tool-free extraction.

Powerful

32-bit processor with Ethernet, LonTalk(tm), and RS-232/RS-422.

Ultra-Wideband 300 MHz bandwidth, fully loaded.

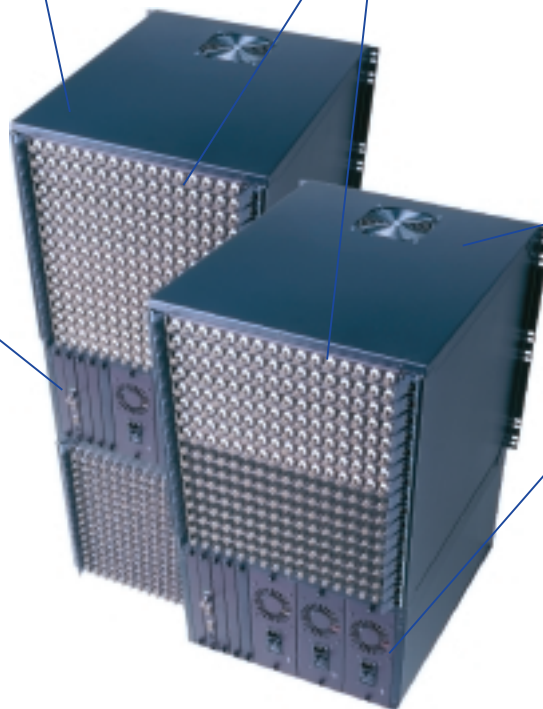
AutoPatch Virtual Matrix™ programmable - software reconfigurable in-the-field.

Reliable

Self-diagnostics minimize down time.

Dual-redundant, hot-swappable power supplies.

Backed by AutoPatch's exclusive Lifetime Warranty*



epica™

Epica-128 / Epica-256 Matrix Switcher Specifications

General

AC Power: 100-240 VAC single phase
 Humidity: 0 to 90% non-condensing
 Enclosure Dimensions: 25" (63.50 cm) Depth
 Epica-128: 28.0" (71.12 cm) Height
 Epica-256: 43.75" (111.13 cm) Height
 17.63" (44.78 cm) Width w/o rack ears
 Weight: Appx. 170 lbs (77 kg) per loaded encl.
 Input Range: 16 to 128 or 256 per signal type, increments of 16
 Output Range: 16 to 128 or 256 per signal type, increments of 16
 Communications: RS-232, RS-422, LonTalk, Ethernet
 Signal Types: Composite (NTSC, PAL, SECAM), Y/C, HDTV, Component Video, RGB, RGBS, RGBHV, Mono Audio, Stereo Audio, Multi-channel Audio, Serial Digital to 270 Mb/s, RS-232, RS-422

Audio Throughput

Frequency Response: <0.1 dB from 20 to 200 kHz
 THD + Noise: <.02% from 20 to 20 kHz, Vin = -6 to +26.6 dBu
 Crosstalk: <-100 dB, 1kHz, Vin = +20 dBu
 Signal to Noise Ratio: -95 dB from 20 to 20kHz, Vin = +20 dBu

Audio Input

Level: Common +24.7 dBu, Diff. +27.0 dBu
 Impedance: 18 kOhms
 Type: Balanced and Unbalanced
 Connector: Disconnectable three pos. terminal block

Audio Output

Level: +27.0 dBu
 Type: 50 Ohms
 Gain Adj. Range: Balanced and Unbalanced
 Connector: -6 dB to +7 dB (electronic adj. option)
 Disconnectable three pos. terminal block

Standard Video Throughput

Frequency Response: +/- 3 dB to 10 MHz, fully loaded, any routing state
 Differential Gain*: <0.2% or better (f = 3.58 MHz, 10 to 90% APL)
 Differential Phase*: <0.2° or better (f = 3.58 MHz, 10 to 90% APL)
 Crosstalk (adj. ch.): <-50 dB (f = 5 MHz)
 *performed with a standard five-step modulated staircase test signal.

Standard Video Input

Level: +/- 5 Volts
 Impedance: 75 Ohms
 Return Loss: -45 dB at 5 MHz
 Connector: BNC

Standard Video Output

Level: +/- 5 Volts
 Impedance: 75 Ohms
 Connector: BNC

Ultra-Wideband Throughput

Frequency Response: +/- 3 dB to 300 MHz, fully loaded, any routing state
 Crosstalk (adj. ch.): <-60 dB (f = 5 MHz)
 <-30 dB (f = 150 MHz)

Ultra-Wideband Input:

Level: +/- 1 Volt
 Impedance: 75 Ohms
 Return Loss: -45 dB at 5 MHz
 Connector: BNC

Ultra-Wideband Output:

Level: +/- 1 Volt
 Impedance: 75 Ohms
 Connector: BNC



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*Subject to certain conditions, see warranty brochure for details.

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