

Epica | Distribution Matrix



The Epica is a dependable, high-performance solution for large signal routing applications. It is a trusted cornerstone in hundreds of mission critical military applications, traffic monitor/control, casinos, stadiums and arenas.

ULTRA-FLAT RESPONSE

The video frequency response in the Epica is a tight +/- 3 dB, unlike other manufacturers who specify only -3 dB to allow for the use of excessive peaking, damaging the signal, to record a wider bandwidth.

CUSTOMIZABLE

The Epica Series is available in two enclosure sizes: Epica-256 (25 RU) and the Epica-128 (16 RU). Simply choose input and output boards in increments of 16 up to 512x512 per signal type. Combine multiple signal types in various I/O sizes in the same enclosure (as space allows) or in the same system via linking enclosures.

I/O RANGE

16x16 through 512x512
(increments of 16 inputs and/or outputs)

SIGNAL TYPES

Composite, S-video, Y/c
HDTV, Y/Pb/Pr, YUV
RGB, RGSB, RGBS, RGBHV
Mono audio, Stereo audio
S/PDIF, AES 75 Ω

PROFESSIONAL FEATURES

All models come standard with dual-redundant, hot-swappable power supplies, breakaway to route audio, audio follow video or video, groupings, programmable macro functions, self-diagnostics, and RS-232/422 control port. In addition all models have optional SYNC for vertical interval switching and optional volume control.

MULTIPLE CONTROL OPTIONS

All models come with standard front panel control, RS-232/422 control port, support simple BCS serial control protocol, and ship with free APControl software. also provides remote control options and TCP/IP control (TCP/IP is via an external module).



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GENERAL

AC Power:	85-264 VAC single phase
Power Consumption (max):	470 (typical) Watts per loaded enclosure
Humidity:	0 to 90% non-condensing
Operational Temperature:	32° to 100° F (0° to 43° C)
Enclosure Dimensions Epica-128:	25" (63.50 cm) depth 17.63" (44.77 cm) width without mounting ears 19" (48.26 cm) width with mounting ears
Height Epica-128:	28" (71.12 cm) 16 RU
Weight Epica 128:	140 lbs. per loaded enclosure
Enclosure Dimensions Epica-256:	25" (63.50 cm) depth 17.4" (44.2 cm) width without mounting ears 19" (48.26 cm) width with mounting ears
Height Epica-256:	43.75" (111.13 cm) 25 RU
Weight Epica-256:	170 lbs. per loaded enclosure
Approvals:	CE, ETL/cETL, FCC

STANDARD AUDIO

Input Level (max):	+26.6 dBu, balanced, no volume control +22 dBu, balanced, with volume control
Input Impedance:	18 k Ω
Output Level (max):	+26.6 dBu, balanced, no volume control +22 dBu, balanced, with volume control
Output Impedance:	50 Ω
Frequency Response:	<+/-0.1 dB (20 Hz to 20 kHz)
THD + Noise:	<0.03% (20 Hz to 20 kHz, Vin = -6 to +26.6 dBu), no volume control <0.02% (20 Hz to 20 kHz, Vin = 0 to +26.6 dBu), no volume control <0.03% (20 Hz to 20 kHz, Vin = -10 dBu to +22 dBu), with volume control
Signal to Noise Ratio:	>110 dB (20 Hz to 20 kHz, Vin = +20 dBu)
Crosstalk:	<-95 dB (1 kHz, Vin = +20 dBu)
Output Gain Adjustment Range:	+6 dB to -6 dB
Input Volume Adjustment Range:	+10 dB to -70 dB (mute)
Output Volume Adjustment Range:	+10 dB to -70 dB (mute)

STANDARD VIDEO

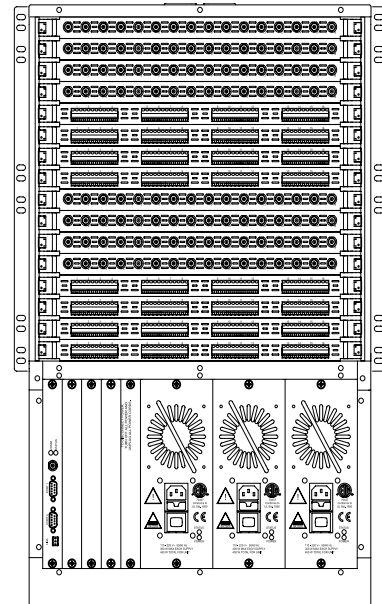
Input Level (max):	+/- 5 Volts
Input Impedance:	75 Ω
Output Level (max):	+/- 5 Volts
Output Impedance:	75 Ω
Frequency Response:	10 MHz or better (+/- 3 dB)
Crosstalk:	<-50 dB (f = 5 MHz)
Differential Gain:	<0.2% or better (f = 3.58 MHz)
Differential Phase:	<0.2° or better (f = 3.58 MHz)
Signal to Noise Ratio:	>60 dB (Vin = 0.7, 100% IRE)

WIDEBAND VIDEO

Input Level (max):	+/- 1 Volts
Input Impedance:	75 Ω
Output Level (max):	+/- 1 Volts
Output Impedance:	75 Ω
Frequency Response:	300 MHz or better (+/- 3 dB)
Crosstalk:	<-60 dB (f = 5 MHz) <-30 dB (f = 150 MHz)

FEATURES

- Ultra-Flat Response
- TCP/IP control option (via external module)
- Standard front panel control
- Remote control options available
- RS-232/422 control port
- Breakaway
- Groupings
- Programmable macro functions
- Optional volume control
- Optional SYNC input for vertical interval switching
- Standard redundant power supply
- Simple BCS Serial Control Protocol
- Linkable enclosures
- Rack mounting ears included
- Audio connections support balanced or unbalanced



Epica-128 64x64 composite + mono audio (16 RU)
1 of thousands of possible configurations