4YDM

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Distribution Matrix

Applications

Command and Control Centers

Distance Learning

Broadcast Environments

Security Systems

Video Arraignment Systems

Sports Bars

Board Rooms

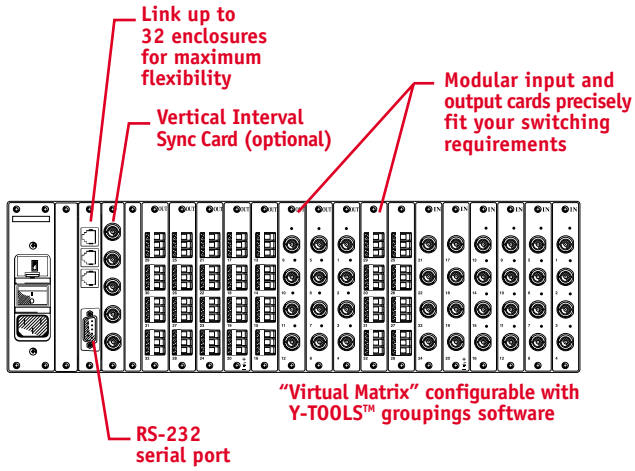
- **Matrix sizes from 4x4 up to 32x32 per signal type**
- **200 MHz Ultra-Wideband performance**
- **Multiple I/O board combinations**

4YDM Distribution Matrix Specifications

- Matrix sizes from 4x4 up to 32x32 per signal type
- Ideal for routing: Composite Video (NTSC, PAL, SECAM), Y/C and S-Video, Component Video, RGB, RGBS, RGBHV, Mono Audio, Stereo Audio, Serial Digital, RS-232, RS-422
- 200 MHz Ultra-Wideband performance
- Multiple I/O board combinations
- Field expandable in increments of four inputs or outputs
- Switch any input to any or all outputs in any combination
- 32 programmable memory "presets"
- Combine entire installations matrix requirements in a single system controllable from one or more sources
- Includes APControl, free Windows matrix control and scheduling software

System Options:

Local and Remote (to 1000 ft.) X/Y Control Panels
Single Bus Controller Keypads
Vertical Interval Switching
Input Gain Control (Audio and Video)
Redundant Power Supply



GENERAL

AC Power:	100 - 240 VAC single phase
Maximum Power Consumption:	110 Watts per enclosure
Operational Temperature:	32° to 110° F (0° to 43° C)
Humidity:	0 to 90% non-condensing
Dimensions:	17.00 in (43.18 cm) depth 17.00 in (43.18 cm) width without mounting ears 19.00 in (48.26 cm) width with mounting ears 5.25 in (13.34 cm) height (3 r.u.)
Weight:	20 lbs (9.09 kg) per enclosure
Approvals:	CE, UL

AUDIO

Throughput:

Frequency Response:	< ± 0.1 dB (20 Hz to 20 kHz)
Total Harmonic Distortion + Noise:	< 0.04% (20 Hz to 20 kHz, Vin = -3.3 dBu to 13 dBu)
Crosstalk:	< -95 dB (1 kHz, Vin = 13.2 dBu)
Signal to Noise Ratio (SNR):	-100 dB DC to 20 kHz

Input:

Maximum Level:	Common Mode: 22.7 dBu Differential: 28.2 dBu
Impedance:	18 kΩ
Type:	Balanced or Unbalanced
Common Mode Rejection Ratio (CMRR):	-90 dB typical, -20 dB min. (20 Hz to 20 kHz, Vcm = ± 10 V)
Power Supply Rejection Ratio (PSRR):	-80 dB typical, -60 dB min. (20 Hz to 20 kHz, Vcm = ± 15 V)
Gain Adjustment Range (optional):	-3 dB to +10 dB
Connector type(s):	3 Position Screw Terminal

Output:

Maximum Level:	25.95 dBu, Balanced
Impedance:	50 Ω
Type:	Balanced or Unbalanced
Gain Adjustment Range:	-3 dB to +10 dB
Connector type(s):	3 Position Screw Terminal

STANDARD VIDEO

Throughput:

Frequency Response:	± 3 dB to 40 MHz (1:1)
Differential Gain:	0.1% or Better (f = 3.58 MHz)
Differential Phase:	0.08° or Better (f = 3.58 MHz)
Crosstalk (adjacent channel):	< -75 dB (f = 5 MHz)
Propagation Delay:	< 20 ns (Vin = ± .5 V)
Signal to Noise Ratio (SNR):	< -70dB (Vin = 0.7 V, 100% IRE)

Input:

Maximum Level:	± 5 V
Impedance:	75 Ω or Hi-Z (22 kΩ)
Gain Adjustment Range (optional):	-3 dB to +10 dB
Connector type(s):	BNC

Output:

Maximum Level:	± 5 V
Impedance:	75 Ω
Gain Adjustment:	-3 dB to +10 dB
Connector type(s):	BNC

ULTRA-WIDEBAND VIDEO

Throughput:

Frequency Response:	± 3 dB to 200 MHz or Better
Crosstalk (adjacent channel):	< -60 dB (f = 5 MHz)
Propagation Delay:	< 20 ns (Vin = ± 0.5 V)
Signal to Noise Ratio (SNR):	< -70 dB (Vin = 0.7 V, 100% IRE)

Input:

Maximum Level:	± 2 V
Impedance:	75 Ω or Hi-Z (22 kΩ)
Gain Adjustment Range (optional):	-3 dB to +10 dB
Connector type(s):	BNC

Output:

Maximum Level:	± 2 V
Impedance:	75 Ω
Gain Adjustment:	-3 dB to +10 dB
Connector type(s):	BNC

BAEKDOO INTERSYSTEMS CO.,LTD
백두인터시스템(주)
Tel.02-579-9126 Fax.02-579-9129
e-mail : sales@baek-doo.com
http://www.baek-doo.com