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MatrixPRO-II 3G/HD/SD-SDI series

High-speed 3G serial digital routers

Barco's MatrixPRO-II SD/HD/3G-SDI series offers three models of high-speed serial routers: 8x8, 16x16 and 32x32. All three models are compact, have an extremely slim profile, are cost-effective, and provide an excellent solution for applications where budget and space are at premium.

Featuring genlock input

All routers support SDI formats from SD formats to 3G/HD. Their superior design allows for image switching and signal distribution without artifacts. They all feature a genlock input with loop through, ensuring that all switching is synchronized with the house sync.

Flexible control

The routers can be controlled from the front panel, RS-232, Ethernet connections or the Encore and ScreenPRO-II presentation systems. Barco's MatrixPRO-II SDI router series allows a single unit to be subdivided into multiple layers.

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Product specifications	MatrixPRO-II 3G/HD/SD-SDI series
Supported signal formats	DVB-ASI, SMPTE 259M, SMPTE 292M, SMPTE 424M; 270M bps – 2.97Gbps; 2K, 2048x1556/23.98 and 24
Inputs	■ Standard: SMPTE 259M / SMPTE 292M / SMPTE 424M ■ Data rate: 270Mbps – 1.485Gbps / 2.97Gbps ■ Connector: 75 ohm BNC female ■ Impedance: 75 ohm nominal ■ Return loss: > 15dB (5MHz-1.485Ghz); > 10dB (1.5GHz – 3GHz) ■ Cable equalization: Automatic up to 70m @ 2.97Gbps, typical Belden 1694AAutomatic up to 100m @ 1.485Gbps, typical Belden 1694A Automatic up to 300m @ 270Mbps, typical Belden 8281
Outputs	■ Connector: 75 ohm BNC female ■ Impedance: 75 ohm nominal ■ Return loss: > 15dB (5MHz-1.485Ghz); > 10dB (1.5GHz – 3GHz) ■ Signal level: 800mVp-p ±10% ■ Rise/fall time: - 20% - 80% - SD limit: 0.4ns – 1.5ns, < 0.5ns rise/fall variation; - HD limit: < 270ps, < 100ps rise/fall variation; - 3G-HD limit: < 135ps, < 50ps rise/fall variation ■ Amplitude overshoot: < 10% ■ Signal polarity: Non-inverting electrical with respect to inputs
Signal Speed	■ Timing jitter: SD: < 0.2 UI; 3G-HD/HD: <1UI ■ Alignment jitter: SD: <0.2UI; 3G-HD/HD: <0.2UI
Safety Regulations	Compliant with CE EN55103-1 and 2
Control	Serial port: RS-232, DB9 connector femaleEthernet port: 10/100BaseT Ethernet bus, 1x RJ45 connector
Dimensions (HxWxD)	■ R9004661 (8x8) - R9004660 (16x16): 44 x 483 x 50 mm / 1.73" x 19" x 1.97" ■ R9004662 (32x32): 88 x 483 x 50 mm / 3.46" x 19" x 1.97"
Weight	■ R9004661 (8x8): 1.3 kg / 2.86 lbs ■ R9004660 (16x16): 1.4kg / 3.08 lbs ■ R9004662 (32x32): 2.2 kg / 4.84 lbs
Power consumption	■ R9004661 (8x8): current: @ +15V/-15V: 900/2 mA - power: 14W ■ R9004661 (16x16): current: @ +15V/-15V: 1,273/4 mA - power: 19W ■ R9004662 (32x32): current: @ +15V/-15V: 1,302/1,035 mA - power: 35W
Power supply (R9871081)	■ AC supply: 100-240 VAC, 50-60 Hz / Max. 1.6A ■ AC main connector: IEC 320 ■ DC output: current: +15V, max 2.2A / -15V, max 1.35A / Power: maximum 43W ■ DC connector: DB9, female ■ Weight: 0.35 kg / 0.77 lbs ■ Safety standards: compliant with CE EN60950, UL-1950/CSA22.2

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