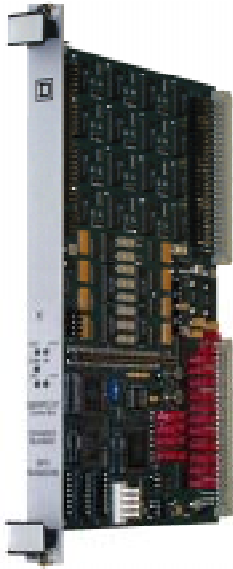


SERIPLEX®

High-Density Mixed Analog and Digital (MuxADIO) Cards

INTRODUCTION



MuxADIO Card

SERIPLEX high-density MuxADIO cards provide high quantities of digital and analog I/O in a VME form factor. These cards provide up to 48 analog I/O points and 175 digital I/O points in a single VME card slot.

MuxADIO cards take advantage of SERIPLEX Address Multiplexing, which supports up to 7680 digital I/O signals in a single network system. The SERIPLEX Control Bus interface allows high-speed, deterministic control, with all signals updated in as little as 5.3 ms per card.

Analog input and output signals offer 12-bit resolution, with either 0-10V or $\pm 5V$ ranges of operation. Digital output points are 24-Vdc open-collector low-true drivers. Some of the 24-Vdc digital input signals are independent, while others are dedicated to monitoring associated digital output signals. Some digital I/O signals are routed through a daughter card (not supplied), to perform additional logic processing and interlocking. The Seriplex bus signals and most I/O signals are available through the card's backplane connections; additional connectors are provided for remaining signals.

While MuxADIO cards use the standard single-slot VME 6U form factor and backplane connectors, they are not VME-compatible due to their unique backplane signal interfaces.

MuxADIO cards are designed for specific OEM applications; therefore certain unique application considerations apply. Please contact your local Square D sales representative for assistance in determining whether these cards are appropriate for your application. Designs can be customized for high-volume OEM applications.

PRODUCT SELECTION

Catalog Number	Analog Outputs	Analog Inputs	Digital Outputs	External Digital Inputs	Dedicated Digital Inputs Δ
SPX MuxADIO110	12	24	56	32	48
SPX MuxADIO200	16	32	96	35	61
SPX MuxADIO210	16	32	96	79	17

Δ Dedicated digital inputs indicate the status of associated digital output signals

SPECIFICATIONS

Electrical Characteristics

Analog input and output resolution		12 bits (0 to 4095)
Analog input and output ranges		0 to +10 Vdc, -5 to +5 Vdc
Analog output load		5 mA per point
Digital input type		24 Vdc, high-true
Digital input switching threshold		Logic low 4 Vdc, logic high 19 Vdc, nominal 10.5 Vdc
Digital output type		24 Vdc, low-true, open-collector
Digital output current	MuxADIO110	350 mA per point, 5A max per card
	MuxADIO200, 210	240 mA per group of outputs (8 groups of 8 outputs, 8 groups of 4 outputs)

Physical Characteristics

Operating temperature		0 to 40 °C (32 to 112 °F)
Storage temperature		-40 to +85 °C (-40 to +185 °F)
Relative Humidity		5 to 80%, non-condensing
Shock (IEC 68-2-27)		15g, 3 axis, 11ms duration, half-sine
Vibration (IEC 68-2-6)		.075mm 10 to 57 Hz, 1G 57 to 150 HZ, 3 axes
Indicator Lamps	MuxADIO110	+5V, +15V, -15V, +24V, Data, Clock
	MuxADIO200, 210	+5V, +15V, -15V, +24V, COM OK

SERIPLEX Bus Parameters

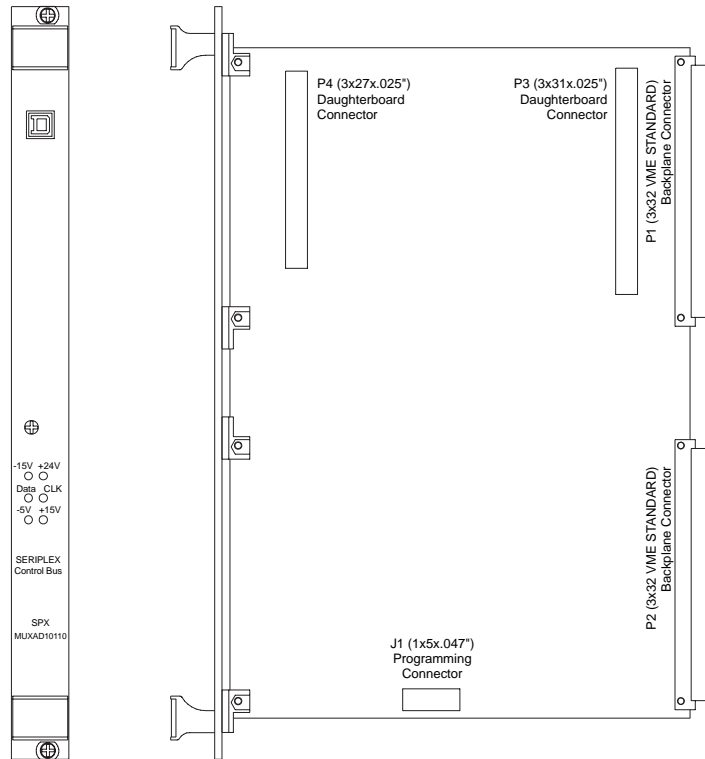
Clock Rate	10 kHz to 192 kHz
Address usage	32 addresses (2 words of 16 bits each)
Multiplex channel usage	16 channels
Set-up cable	SPX HH2D2CABLE or SPX HH2Y2CABLE

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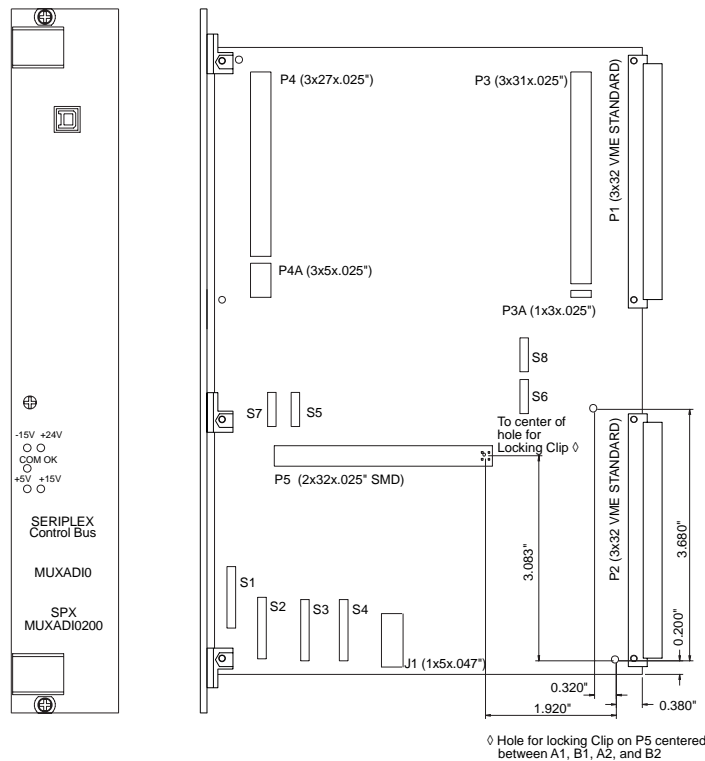


SERIPLEX®
High-Density Mixed Analog and Digital (MuxADIO) Cards

DIMENSIONS



MUXADIO110



MUXADIO200 & MUXADIO210

