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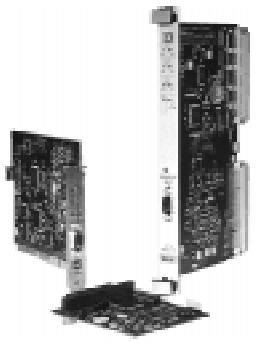
Find the *Schneider Electric / Square D SPX VME6U1V2* at our website: *Click HERE*

CPU INTERFACE CARDS

The SERIPLEX CPU Interface Cards allow software running on a host computer to control and monitor sensors and actuators through a SERIPLEX control bus. These cards act as masters for a SERIPLEX bus, monitoring for bus fault conditions as well as exchanging input and output signals with I/O devices. The cards interact with the computer through a 2-kbyte memory interface, so that detailed knowledge of SERIPLEX protocol is not required to program the card.

Key Features:

- PC (ISA), PC/104, and VME interface cards
- Capacity of 7680 discrete or 480 16-bit analog signals
- Full selection of SERIPLEX bus parameters
- Full SERIPLEX data error detection:
  - — Digital Debounce for discrete input signals
  - — Complementary Data Retransmission (CDR) for analog and multi-bit signals
- Front-visible status and fault indicator lamps
- Compatible with all SERIPLEX I/O devices
- Version 1.5 emulation mode for software compatibility with earlier interface product versions
- 2-kbyte dual-port RAM memory interface to host for fast response and simple software interface
- Includes program-development aids on CD-ROM:
  - — C-language programming library
  - — Windows NT low-level driver, with Control Panel configuration utility
  - — Programmer's Guide manual
- Software drivers available from several leading control and MMI software vendors
- Advanced programming features:
  - — Host watchdog monitor
  - — Heartbeat indication
  - — Hardware interrupts to support exception-driven processing
  - — 32-character text indication of card and bus status
  - — Product identity and firmware version available in memory
- Auto Restart and other configurable responses to bus faults
- Special card operating modes:
  - — Monitor mode reports inputs but disables outputs
  - — Emergency State mode presets all outputs to known states
  - — Data Pass-Through lets inputs directly control outputs without host intervention



Product Selection Information

Catalog Number	Description
SPX PCINTFV2	SERIPLEX PC Interface Card, ISA bus, half-slot AT
SPX PC104INTFV2	SERIPLEX PC/104 Interface Card
SPX VME6U1V2	SERIPLEX VME Interface Card, 6U
SPX INTFCBL0	SERIPLEX interface card cable, 4 ft., 9-pin D receptacle to bare wires
SPX RIBBONASM	SERIPLEX interface ribbon cable, 3 ft., 10-pin receptacle to 9-pin D plug

Physical Characteristics

Parameter		Value
Size	SPX PCINTFV2	Half-length PC-AT form factor (0.9 x 4.8 x 7.0 in.)
	SPX PC104INTFV2	PC/104 form factor (0.5 x 3.6 x 3.8 in.)
	SPX VME6U1V2	VME 6U form factor (0.8 x 7.4 x 10.3 in.)
SERIPLEX bus connection	SPX PCINTFV2	9-pin D-shell plug (DB-9P), SPX INTFCBL0 bus cable provided
	SPX PC104INTFV2	10-pin rectangular header, SPX INTFCBL0 bus cable and SPX RIBBONASM ribbon cable provided
	SPX VME6U1V2	9-pin D-shell plug (DB-9P), SPX INTFCBL0 bus cable provided
Operating temperature		0 to 60 °C (32 to 140 °F)
Storage temperature		-25 to 80 °C (-13 to 176 ° F)
Relative humidity		5 to 95%, non-condensing

Electrical Characteristics

Parameter		Value
Bus power	Nominal voltage	24 Vdc
	Voltage range	10.5 to 15 Vdc; 19.2 to 30 Vdc
	Current draw	300 mA max
Host power	SPX PCINTFV2	+5V: 450 mA typical, 725 mA max +12V: 2.5 mA typical, 55 mA max
	SPX PC104INTFV2	+5V: 425 mA typical, 650 mA max +12V: 2.5 mA typical, 55 mA max
	SPX VME6U1V2	+5V: 400 mA typical, 500 mA max +12V: 2.5 mA typical, 55 mA max
Approvals:		UL File Number E114926 CSA File Number LR53531 FM (CL-1, DIV2, GRP A, B, C, D) 2D5A9.AX

SERIPLEX Bus Parameters

Parameter		Value
Data capacity	Non-multiplexed	255 input + 255 output bits (510 total), 15 16-bit analog input + 15 analog output signals
	Multiplexed	3840 input + 3840 output bits (7680 total), 240 16-bit analog input + 240 analog output signals
Clock rate	Version 1.5 emulation	16, 20, 25, 32, 50, 64, 75, or 100 kHz
	Version 2 (normal) operation	10, 16, 20, 25, 32, 50, 64, 75, 100, 125, 147, 167, or 192 kHz
Frame length		From 16 to 256 addresses, in multiples of 16
Bus operating modes		Master/slave or peer-to-peer
Address Multiplexing	Selection	Selectable by individual input or output words (16 consecutive bus addresses)
	Number of channels	2, 4, 8, or 16 channels with optional Priority Channel
Digital input signal debouncing	Selection	Selectable by individual non-multiplexed input signals
	Debounce length	2 or 3 data samples
CDR multi-bit data validation	Selection	Selectable by individual input or output words (16 consecutive bus addresses in one multiplex channel)
	Response time	Immediate or 3-frame ride-through
	Response method	Bus halt or indication only
Fault response		Halt or Auto Restart

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STAND-ALONE (PEER-TO-PEER) HOSTS

	Product Name / Catalog Number	Vendor	Phone	Website
	SPX Clock	Square D Co.		www.squared.com
	ASC	NR&D	800-235-6723	www.niobrara.com

BACKPLANE CPU INTERFACES

Interface to:	Product Name / Catalog Number	Vendor	Phone	Website
PC (ISA Bus)	SPX PCINTFV2	Square D Co.	919-266-8600	www.squared.com
VME Bus	SPX VME6U1V2	Square D Co.	919-266-8600	www.squared.com
PC/104 Bus	SPX PC104INTFV2	Square D Co.	919-266-8600	www.squared.com
Allen-Bradley PLC5 VME	SERIPLEX Driver (requires Square D SPX VME6U1V2 card)	Elite Engineering	810-752-5977	
GE-Fanuc 90/70 PLC	SERIPLEX Driver (requires Square D SPX VME6U1V2 card)	Elite Engineering	810-752-5977	
Modicon TSX Momentum PLC	170 ANM 050 10	Square D Co.	919-266-8600	www.squared.com
Modicon TSX Quantum PLC	QSPXM	NR&D	800-235-6723	www.niobrara.com
SY/MAX PLC	SPXM	NR&D	800-235-6723	www.niobrara.com

NETWORK GATEWAYS

Network:	Example Hosts	Product Name / Catalog Number	Vendor	Phone	Website
Modbus Plus	Modicon PLC's	170ANM05010 and: 170NEF11021, 170NEF16021, 170PNT11020, or 170PNT16020	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
Modbus Plus	Modicon PLC's	BG-3500	Panel-Tec	800-869-2026	www.panel-tec.com
Profibus DP	Siemens PLC's	170ANM05010 and 170DNT11000	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
Ethernet	Computers and PLC's	170ANM05010 and 170ENT11000	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
FIPIO	Modicon TSX Micro PLC Modicon TSX Premium PLC	170ANM05010 and 170FNT11001	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
Interbus S I/O Bus	Modicon PLC's Siemens PLC's	170ANM05010 and: 170INT11000 or 170INT12000	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
DeviceNet	Allen-Bradley PLC's	170ANM05010 and 170LNT71000	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
ControlNet	Allen-Bradley PLC's	170ANM05010 and 170LNT81000	Square D / Modicon	800-468-5342	www.squared.com www.modicon.com
Allen-Bradley Data Highway+ Allen-Bradley Remote I/O Many others	Allen-Bradley PLC's	X-Link	SST (Woodhead)	519-725-5136	www.sstech.on.ca
General Serial Interface	GE-Fanuc PLC's Omron PLC's Idec PLC's Mitsubishi PLC's SY/MAX PLC's Telemecnaique PLC's	SD-3000	Panel-Tec	800-869-2026	www.panel-tec.com

PC SOFTWARE DRIVERS (Required Backplane CPU Interface)

Software Package	Software Vendor	Driver Name / Catalog Number	Driver Vendor	Phone	Website
ASIC-100, 200, 300	Xycom Automation - ASAP	SERIPLEX	Xycom Automation - ASAP	440-247-9216	www.xycom.com
Think & Do	Think & Do Software	SERIPLEX	Think & DO Software	800-722-6875	www.thinkndo.com
GELLO	Event Technologies	SERIPLEX	Event Technologies	414-427-8002	www.gello.com
Visual Logic Controller	Steeplechase	Square D SERIPLEX SPLX RIO	Steeplechase	734-975-8100	www.steeplechase.com
Soft PLC	Tele-Denken	SERIPLEX	Tele-Denken	800-763-8752	www.softpic.com
OpenControl	Nematron	SERIPLEX	Nematron	800-636-2876	www.nematron.com
Factory Suite	Wonderware	APC SERIPLEX	Standard Automation	281-334-3293	www.stdauto.com

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