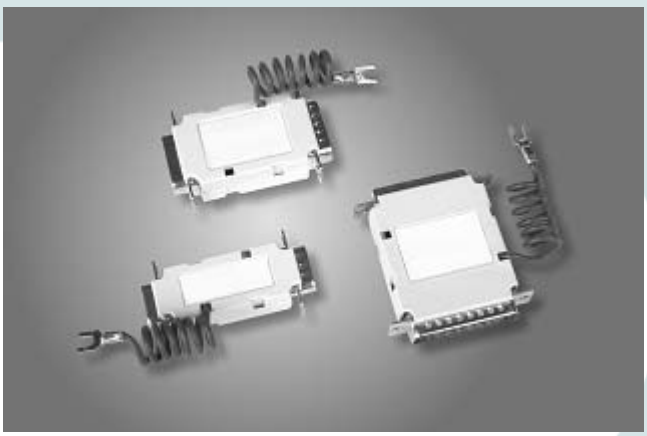
V-Blox™ SIP™ Communication Port Protection Products

Ideal For Subminiature D and Centronics Communication Ports



SIPs OFFER

- State-of-the-art, avalanche diode technology
- Compact in-line installation
- High speed, high energy handling capability
- Low shunt capacitance to reduce signal loss

YOU RECEIVE

- Affordable, superior, equipment protection
- Improved reliability and maximized system up-time
- Protection at the interface card
- Adaptability to most industry applications

The SIP Series of Subminiature D interface protectors will ensure the reliable operation of parallel and serial devices such as printers and external modems, point-of-sale terminals, mainframes, dumb terminals and most other devices using subminiature D or Centronics connectors, which are sensitive to destructive transient energies. Standard applications include Ethernet, Token Ring, RS232, RS422 and LAN/WAN interfaces. Special applications can be accommodated through our Custom Products Group.

Transient surges can enter electronic equipment through any pathway provided and damage expensive communications hardware. If a facility has a reliable AC power protection system in place, transient surge energies can still be generated within a building by sources such as inductive load switching, ground loop currents, lightning and electrostatic discharge.

SIP Series protectors combine compact enclosures with extremely fast response times of less than 5 nanoseconds. They are specifically designed to give added security to electronic devices sensitive to voltage rises or ground loop energies and have been particularly effective in areas prone to lightning activity. Standard Centronics and Subminiature D (9,15, & 25 pin) interface connectors are available in configurations protecting all pins or specific pins as required. All these features make the SIP protectors the most cost effective and versatile devices of their kind available today.

ALL V-BLOX PRODUCTS ARE MADE IN THE USA

V-Blox Corporation is the leader & innovator in the design and manufacture of surge protection products, with twelve series of products and over 4,000 production variations. Through our Custom Products Division (CPD), V-Blox can design surge protection solutions for just about any application or network environment. V-Blox's Three Dimensional Balanced Array Protector earned the industry's highest recognition as the "gold standard" in communication line surge protection. Continued innovations include the use of avalanche diode technology, compact in-line installations for stand-alone applications along with products that address the structured cabling environment, coupled with high-speed, high-energy handling capability. V-Blox's products provide protection for products such as hubs, routers, switches, modems, ISDN, CATV, CCTV, SATV, USB, PCMCIA cards, and POS terminals. Please visit our website at **www.vblox.net** for more information on our broad range of products.

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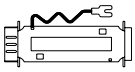
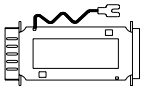
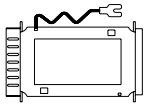
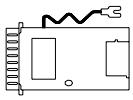
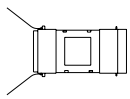
	ELECTRICAL SPECIFICATIONS (All specifications are subject to change without notice)				
	ETHERNET	RS422	PARALLEL	RS232	TOKEN RING
STD. CLAMP VOLTAGE	7.5 VOLTS	7.5 VOLTS	7.5 VOLTS	18 VOLTS	18 VOLTS
PEAK PULSE CURRENT 10/1000 us s.c. wave form @ Vcl	132 AMPS	132 AMPS	132 AMPS	60 AMPS	60 AMPS
RESPONSE TIME	----------LESS THAN 5 NANOSECONDS----------				
MAXIMUM SHUNT CAPACITANCE	<30 pF	<30 pF	<30 pF	<30 pF	<30 pF

DB 9 SERIES	**PINS**	SYSTEM APPLICATION AND MODEL NUMBER		
	PROTECTED	RS422/RS423/RS485	RS232	TOKEN RING
	PROTECTS ALL	DB 9-RS422	DB 9-RS232	DB 9-18VLC

DB 15 SERIES	**PINS**	SYSTEM APPLICATION AND MODEL NUMBER		
	PROTECTED	RS422/RS423/RS485	RS232	ETHERNET
	PROTECTS ALL 15 PINS *UNLESS SPECIFIED	DB 15-RS422	DB 15-RS232	DB 15-EN *PROTECTS IEEE 802.3 PINS AUI

DB 25 SERIES	STANDARD PIN	SYSTEM APPLICATION AND MODEL NUMBER		
	CONFIGURATIONS	RS422/RS423/RS485	RS232	PARALLEL
	25 WIRE ALL 25 PINS PROTECTED	DB 25-RS422	DB 25-RS232	DB 25-PARLL
	4 WIRE PINS (1), 2, 3, 7, 20	X	425-RS232	X
	8 WIRE Pins (1), 2, 3, 4, 5, 6, 7, 8, & 20	X	825-RS232	X

MODULAR ADAPTOR	STANDARD PIN	RS422/RS423/RS485	RS232
	CONFIGURATIONS		
	8 WIRE	DB25M/RJ45-E	DB25M/RJ45-T
	8 WIRE	DB25F/RJ45-E	DB25F/RJ45-T
	6 WIRE	DB25M/RJ11-E	DB25M/RJ11-T
	6 WIRE	DB25F/RJ11-E	DB25F/RJ11-T

CENTRONICS PARALLEL	MODEL NUMBER
	C-36 M/F
	(SPECIAL CONFIGURATIONS ARE AVAILABLE, CONTACT YOUR SUPPLIER)

ORDERING INFORMATION

To order a SIP, choose the connector type depicted above that accommodates the system application to be protected.

NOTE: Special units can be supplied for any clamp voltage between 7.5 V and 240 V. The following information must be specified when ordering special units:

1. Connector type and pin assignment (ex., DB9, pins (1),2,3,4,& 7)
   ( ) = pin designated as chassis or earth ground
2. System application (ex., RS232)

INSTALLATION

To install, insert the protector in series between the incoming communication lines and the I/O port of the equipment to be protected. The protector ground wire must be connected to the metal chassis of the equipment being protected. Units should be installed at both ends of the data cable for the most effective protection.

CAUTION

Ground wire must be grounded directly to the metal chassis of the equipment being protected. The equipment chassis must be connected to earth through a properly grounded AC power receptacle.

V-BLOX CONNECTED EQUIPMENT GUARANTEE

V-Blox Corporation offers our $25,000 Connected Equipment Guarantee, 15 Year Replacement Program and a Limited Lifetime Warranty. This warranty applies only to serialized low voltage products registered with V-Blox Corporation and is subject to certain disclaimers and limitations. For a complete warranty statement, please contact V-Blox Corporation. All specifications and dimensions are subject to change without notice.