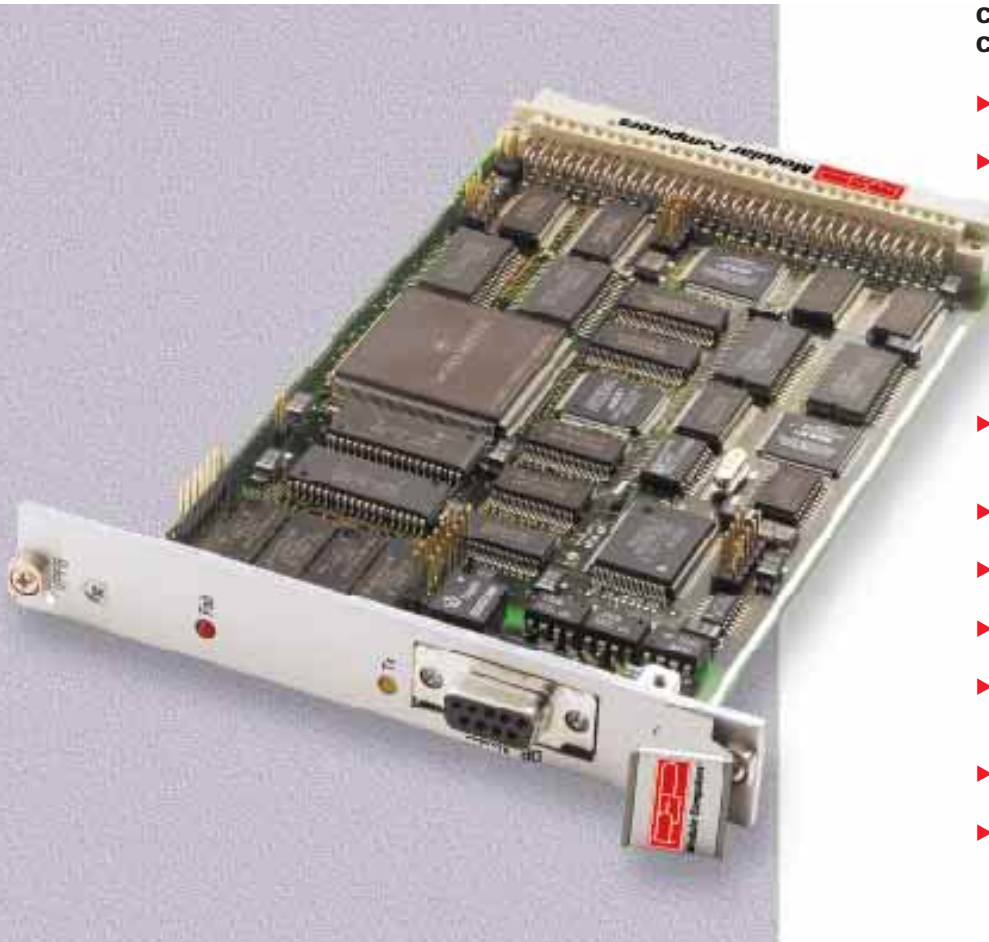




NETWORKS
FIELDBUS

VPFB

Intelligent 3U VMEbus PROFIBUS Controller



Complete PROFIBUS Communication

- ▶ 3U VMEbus Controller
- ▶ VMEbus slave with dual-ported RAM interface
- ▶ Powerful MC68360 processor for local PROFIBUS stack handling
- ▶ ASPC-2 PROFIBUS controller
- ▶ PROFIBUS FMS master/slave
- ▶ PROFIBUS DP master class 1 and 2
- ▶ 9-pin D-Sub PROFIBUS connector on front-panel
- ▶ Up to 12MBaud transfer rate
- ▶ Software support for real-time operating systems



An industrial PROFIBUS board for VMEbus based systems incorporating the advanced ASPC-2 PROFIBUS Controller from Siemens.



Product Overview

VPFB



PEP's VPFB provides PROFIBUS FMS or DP communication up to 12 MBaud in a networked environment according to EN50170.

The PROFIBUS protocol FMS is well suited for general purpose communication tasks at cell or field level while DP is designed for time-critical communication between systems and distributed peripherals.

The heart of the VPFB comprises a powerful microcontroller, the MC68360 and the ASPC-2 PROFIBUS controller, which provides a high speed (up to 12 MBaud) PROFIBUS interface for FMS master and slave and DP master (class 1 and class 2) protocols. The ASPC-2 is responsible for the DP communication and the microcontroller handles the remaining protocol stack functions - especially in FMS mode.

The intelligent integration of PROFIBUS within OS-9, VxWorks or other operating systems allows easy 'C' language programming of PROFIBUS applications.

The standard RS485 interface offers a direct connection to PROFIBUS FMS and DP networks, or via segment couplers to the intrinsically safe PROFIBUS PA net.

Characteristics

CPU:	MC68360 @ 25 MHz
Memory:	256kByte SRAM shared between the CPU and ASPC-2; 256kByte DP-RAM between the CPU and VMEbus; 1 MByte local DRAM and 2MByte FLASH
Controller:	Siemens ASPC-2 PROFIBUS controller
Physical Interf.:	Optoisolated RS485
Transfer Rate:	Up to 12 Mbit/s
Isolation:	1000V DC between the controller and fieldbus interface provided by the on-board DC/DC converter

Common

VME Interface:	DIN41612 96-pin connector A24/A16:D16/D8 slave VMEbus
Board Size:	100mm x 160mm
Front-Panel:	1 slot, 20.4mm (4HP) 9-pin D-Sub fieldbus connector Green token status LED
Weight:	150g
Power Cons.:	5W (typ.)
Temp. Ranges:	0°C to +70°C (standard) -40°C to +85°C (opt. E2) -55°C to +85°C (storage)
Oper. Humidity:	0% to 95% non-condensing

all PEP hardware has a full 2 year warranty

Product	Description	Order No.
VPFB	Siemens ASPC-2 based PROFIBUS controller with an optoisolated RS485 interface for 3U VMEbus operation	17870
OS9-DRV*	OS-9 PROFIBUS development package for FMS, DP and FDL applications	18122

* For use with operating systems other than OS9, please contact the nearest PEP office for advice

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