ASi/PC104 Master

Bihl +Wiedemann
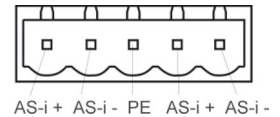
ASi Master Module in PC/104 format

with ASi Control function

Watchdog

Advanced ASi diagnostics

Use as embedded ASi Master

ASi Specification 2.1

AS-i + AS-i - PE AS-i + AS-i -

Article no. BW1229

The ASi/PC104 Master module realizes the functionality of a complete ASi Master on a PC/104 module (identical functions as ASi PC2 with ISA-bus interface). In addition to that an implemented ASi Control unit performs as a PLC and an additional watchdog watches breakdowns of the PC/104 system. While the ASi/PC104 Master controls the ASi network, the full resources of the computer can be used for visualization or other applications. Without using the ASi Control feature the board works as a pure ASi Master. The activated watchdog sets the Master to the offline phase, if it is not triggered by a PC program. Advanced ASi diagnostics to detect occasional occurring configuration errors and judge the quality of the ASi communication are implemented. Normally there is no need for a PC interrupt, but the

ASi/PC104 module is capable to generate interrupts cyclically with every ASi cycle or leaded by configuration errors or changes in input data. Several ASi/PC104 Master modules can share one interrupt.

The ASi/PC104 Master uses a DPRAM interface for data exchange which reserves only 3 bytes on the PC/104 Bus (ISA-Bus) and provides an easy integration of ASi/PC104 Masters in any PC operating system (special drivers). The base address of data exchange can be determined via software. Up to 8 ASi/PC104 modules can be used simultaneously in one PC/104 system. Beside the use in PC/104 systems this ASi Master module can be implemented as embedded ASi Master into specific controllers.

Article no.	BW1229
Type	PC/104 module
Interface	8 bit PC/104 interface, 16 bit connector; galvanic separation from ASi
Operating voltage	5 V DC and ASi voltage
Operating current	approx. 200 mA out of PC power supply approx. 70 mA from ASi
Voltage of insulation	≥ 500 V
Standards	EN 50082 EN 50081
Ambient temperature	0 °C … +55 °C
Storage temperature	-25 °C … +70 °C
ASi cycle time	150 µs * (number of nodes + 1)
ASi specification	2.1
Dimensions (L / W / H in mm)	96 / 90 / 16

Requirements:
IBM compatible PC
PC/104 architecture 80 286 or higher

Accessories:
- **Software for diagnostics, service and approval measurements (Art. no. BW2902)**

Examples
ANSI C and PASCAL both with source code
Drivers for: Microsoft C, Borland C
DLL drivers for: Win 3.11, Win 95/98 ,Win NT 4.0, Win 2000
OPC Server

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