

AS-i Master Module in PC/104 format

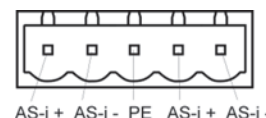
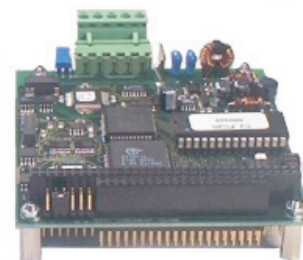
with AS-i Control function

Watchdog

Advanced AS-i diagnostics

Use as embedded AS-i Master

AS-i Specification 2.1



Article no. BW1229

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

but the AS-i/PC104 module is capable to generate interrupts cyclically with every AS-i cycle or led by configuration errors or changes in input data. Several AS-i/PC104 Master modules can share one interrupt.

The AS-i/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 AS-i/PC104 Masters in any PC operating system (special drivers). The base address of data exchange can be determined via software. Up to 8 AS-i/PC104 modules can be used simultaneously in one PC/104 system. Beside the use in PC/104 systems this AS-i Master module can be implemented as embedded AS-i Master into specific controllers.

Article no.	BW1229
Type	PC/104 module
Interface	8 bit PC/104 interface, 16 bit connector; galvanic separation from AS-i
Operating voltage	5 V DC and AS-i voltage
Operating current	approx. 200 mA out of PC power supply approx. 70 mA from AS-i
Voltage of insulation	≥ 500 V
Standards	EN 50082 EN 50081
Ambient temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +70 °C
AS-i cycle time	150 µs * (number of slaves + 1)
AS-i 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