

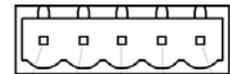
AS-i Master Module in PC/104 Format

With
AS-i Control function

Watchdog

Advanced AS-i diagnostics

AS-i Specification 2.0



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



Article no. BW1065

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 leaded 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.	BW1065
Type	PC/104 module
Dimensions (L, W, H)	96 mm, 90 mm, 16 mm
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
EMC directions	EN 50082, EN 50081
Operating temperature	0°C ... +55°C
Storage temperatur	-25°C ... +70°C
AS-i cyle time	150 μs*(Number of slaves + 1)
AS-i Specification	2.0

Requirements:

IBM compatible PC
PC/104 architecture
80286 or higher

Accessories:

AS-i Control tools (Windows) (Art. no. BW1203)

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