

AS-i Master Board for AT-PCs

AS-i Control function

Watchdog

Advanced AS-i diagnostics

AS-i Specification 2.0



Article no. BW1081

AS-i PC2 realizes the functionality of a complete AS-i Master on a short PC-board. In addition to that an implemented AS-i Control unit performs as a PLC and an additional watchdog watches breakdowns on your PC system. If used without the AS-i Control the board will work as a pure AS-i Master. While the AS-i PC2 board controls the AS-i network, the full resources of the computer can be used for visualization or other applications. For normal operation there is no need for an interrupt, but the AS-i PC2 is capable to generate interrupts leaded by events. Only 3 bytes of the I/O area are used. The watchdog can set the Master into

the offline phase, if it is not triggered by a PC program. Advanced AS-i diagnostics to detect occasional occurring configuration errors and to judge the quality of the AS-i communication are implemented.

AS-i PC2 uses a DPRAM interface for data exchange. This fact provides an easy embedding of AS-i PC2 in any PC operating system (special drivers). I/O-data is readable all time. Up to 8 AS-i PC2-Boards can be used simultaneously in one PC and can share one interrupt. The board serves the requirements of industrial use.

Article no.	BW1081
Type	short AT-board
Interface	8-bit ISA Bus interface, galvanic separation from AS-i
Operating voltage	5 V DC and AS-i voltage
Operating current	Approx. 200 mA out of 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 temperature	-25°C ... +70°C
AS-i cycle time per AS-i circuit	150 μs*(Number of slaves + 1)
AS-i Specification	2.0

Requirements:

IBM compatible PC 80286 or higher

Accessories:

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

Examples in ANSI C and PASCAL, both with source code

Drivers for: Microsoft C, Borland C

DLL drivers for Win 3.11

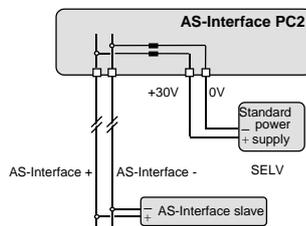
Win 95/98

Win NT 4.0

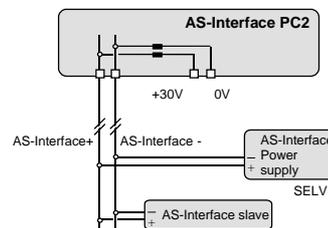
Win 2000

OPC Server

AS-i Connections



AS-i powered by a standard power supply



and by an AS-i power supply