AS-i 3.0 Master PCI Board / **AS-i 3.0 Master Compact PCI Board**



2 AS-i Master on 1 board

AS-i Master Board (BW1922, BW2087) for AT-PCs with PCI slots

AS-i 3.0 Master Board (BW1911) for AT-PCs with Compact PCI slots

Advanced AS-i diagnostics (BW1922):

- · duplicate address recognition
- · AS-i earth fault detector integrated
- · AS-i noise detector integrated
- RS 232 diagnostic interface





BW2087



BW1911





Figure	Туре	Number of AS-i networks, number of AS-i Master ⁽¹⁾	Diagnostic and configuration interface (2)	Recognition of duplicate AS-i addresses (3)	AS-i fault detector (4)	Article No.
	PCI board	2 AS-i networks, 2 AS-i Masters	RS 232	yes	yes	BW1922
	PCI board	2 AS-i networks, 2 AS-i Masters	-	no	no	BW2087
	Compact-PCI	2 AS-i networks, 2 AS-i Masters	-	no	no	BW1911

⁽¹⁾ Number of AS-i networks, number of AS-i Master

"RS 232": Access to AS-i Master and Safety Monitor with Bihl+Wiedemann software by using an adapter cable via RS 232 interface.

(3) Recognition of duplicate AS-i addresses

Detects whether the same address has been assigned to two AS-i slaves. Frequent error when using a handheld addressing device.

AS-i fault detector

Checks the AS-i line for interference effects such as noise, external voltages, ...

[&]quot;Double Master": 2 AS-i networks, 2 AS-i Masters.

Diagnostic and configuration interface

AS-i 3.0 Master PCI Board / AS-i 3.0 Master Compact PCI Board



The AS-i Master PCI Board realizes the functionality of two complete AS-i Masters on a PCI Board.

n addition to that an implemented AS-i control unit performs as a PLC to preprocess the AS-i data on the board (BW1922). Another additional function is the integrated watchdog function. The use of the AS-i Control functions is requiring an activation at an extra charge.

Advanced AS-i diagnostic function for the localization of occasionally occurring configuration errors as well as for the qualitative diagnosis of the AS-i communication are also implemented.

For normal operation there is no need for an PC interrupt, but the AS-i PCI Board is capable to generate interrupts cyclically with every AS-i cycle or leaded by configuration errors or changes in input data.

The DPRAM interface provides an easy integration of the AS-i PCI Board in any operating system (special drivers). The address of the AS-i PCI Board does not have to be adjusted. The AS-i PCI Board works with "Plug and Play". Up to 4 AS-i PCI Masters can be used simultaneously in one PC.

The AS-i PCI Board serves the requirements of industrial use.

Article no.	BW1922	BW2087	BW1911				
General information							
Туре	PCI I	Compact PCI Board					
Duplicate address' recognition	yes	-	_				
AS-i earth fault detector integrated	У	-					
AS-i noise detector integrated	у	_					
RS 232 diagnostic interface	yes		-				
Interface							
Interface	32 bit PCI Bus interface, 3,3 V/5 V galvanic isolation to AS-i AS-i circuit 1, AS-i circuit 2						
Serial interface	RS 232	-	_				
Program memory (EEPROM)	16 KB		_				
AS-i							
Cycle time per AS-i circuit	time per AS-i circuit 150 µs * (number of slaves + 2)						
Master profile	e M4						
AS-i specification	3.0						
Operating voltage	3,3 V/5 V DC and AS-i voltage						
Operating current	approx. 300 mA out of 5 V power supply approx. 100 mA out of 3,3 V power supply approx. 70 mA out of AS-i per AS-i circuit						
Environment		·					
Applied standards	EN 61000-6-2 EN 61000-6-4						
Ambient operating temperature	0°C +55°C						
Storage temperature	-25°C +70°C						
Voltage of insulation	≥500 V						
System requirements							
Hardware	IBM compatible PC 80 486, PCI						
Software	DLL drivers (Windows 2000 or higher, incl. Windows 10) Linux driver						
Connections	1482 1788	AS-I-Kreis 1	AS+iKreis 2 B B B B +AS42 +PWR2-				

Accessories:

- AS-i Control Tools (Windows) (art. no. BW1602)
- AS-i power supply 4 A (art. no. BW1649)
- AS-i power supply decoupling unit for 2 AS-i circuits (art. no. BWU1943)