

ASi-3 Master PCI Board / ASi-3 Master Compact PCI Board

2 ASi Master on 1 board

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

ASi-3 Master Board (BW1911)
for AT-PCs with Compact PCI slots

Advanced ASi diagnostics (BW1922):

- duplicate address recognition
- ASi earth fault detector integrated
- ASi noise detector integrated
- RS 232 diagnostic interface



BW1922



BW2087



BW1911



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

(1) **Number of ASi networks, number of ASi Master**
"Double Master": 2 ASi networks, 2 ASi Masters.

(2) **Diagnostic and configuration interface**

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

(3) **Recognition of duplicate ASi addresses**

Detects whether the same address has been assigned to two ASi nodes. Frequent error when using a handheld addressing device.

(4) **ASi fault detector**

Checks the ASi line for interference effects such as noise, external voltages, ...

ASi-3 Master PCI Board / ASi-3 Master Compact PCI Board

The ASi Master PCI Board realizes the functionality of two complete ASi Masters on a PCI Board.

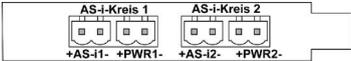
In addition to that an implemented ASi control unit performs as a PLC to preprocess the ASi data on the board (**BW1922**). Another additional function is the integrated watchdog function. The use of the ASi Control functions is requiring an activation at an extra charge.

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

For normal operation there is no need for an PC interrupt, but the ASi PCI Board is capable to generate interrupts cyclically with every ASi 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 ASi PCI Board does not have to be adjusted. The ASi PCI Board works with "Plug and Play". Up to 4 ASi PCI Masters can be used simultaneously in one PC.

The ASi PCI Board serves the requirements of industrial use.

Article no.	BW1922	BW2087	BW1911
General information			
Type	PCI Board		Compact PCI Board
Duplicate address' recognition	yes	-	
ASi earth fault detector integrated	yes		-
ASi noise detector integrated	yes		-
RS 232 diagnostic interface	yes	-	
Interface			
Interface	32 bit PCI Bus interface, 3,3 V/5 V galvanic isolation to ASi ASi circuit 1, ASi circuit 2		
Serial interface	RS 232	-	
Program memory (EEPROM)	16 KB	-	
ASi			
Cycle time per ASi circuit	150 µs * (number of ASi-3 nodes + 2)		
Master profile	M4		
ASi specification	3.0		
Operating voltage	3,3 V/5 V DC and ASi 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 ASi per ASi 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)		
Connections			

Accessories:

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