

# ASi-3 POWERLINK Gateway in Stainless Steel, 2 masters


ASi-3 from ID no. 11833 (see lateral Label)  
1 ASi master, modbus node

Recognition of duplicate ASi addresses

ASi Earth Fault Detector integrated

ASi Noise Detector integrated



Figure	Fieldbus interface (1)	ASi-5/ASi-3	Number of ASi networks, number of ASi Master (2)	Integrated decoupling, ASi current measurement in the gateway (3)	Diagnostic and configuration interface	Recognition of duplicate ASi addresses (4)	ASi fault detector (5)	Article no.
	Modbus	ASi-3 compatible	1 ASi networks, 1ASi-3 Master	no, max. 8 A/ ASi network	RS232	yes	yes	<b>BWU1641</b>
	Modbus	ASi-3 compatible	2 ASi networks, 2 ASi-3 Masters	no, max. 8 A/ ASi network, redundant supply	RS232	yes	yes	<b>BWU1642</b>
	Modbus	ASi-3 compatible	2 ASi networks, 2 ASi-3 Masters	yes, max. 4A/ASi network	RS232	yes	yes	<b>BWU1643</b>

(1) **Fieldbus interface**

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation.

(2) **Number of ASi networks, number of ASi Master**

**"Single Master":**

1 ASi network, 1 ASi-3 Master  
1 ASi network, 1 ASi-3 Master

**"Double Master":**

2 ASi networks, 2 ASi-3 Masters  
2 ASi networks, 2 ASi-3 Masters

(3) **Integrated decoupling, ASi current measurement in the gateway**

**"yes, max. 4 A/ASi network":** Data decoupling integrated in the gateway. Cost-effective power for 2 ASi networks with 1 power supply (optionally supply of multiple Single Gateways by 1 power supply). Operation with short cable lengths with standard 24 V power supply possible.

**"no, max. 8 A/ASi network, redundant supply":** 1 power supply per ASi network. Gateway is powered in normal operation from one of the two ASi power supplies. Should one ASi power supply fail, switching to the other ASi power supply allows all the diagnostics functions to be maintained and the unaffected ASi network continues to operate.

**"no, max. 8 A/ASi network":** 1 ASi network with 1 ASi network

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

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

(5) **ASi fault detector**

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

Art. no.	BWU1641	BWU1642	BWU1643
<b>Fieldbus Interface</b>			
Type	Modbus/Modbus RTU RS485		
Baud rates	1200, 2400, 4800, 9600, 19200, 38400, 57600 or 115000 baud, adjustable parity; default settings are: 9600 Baud, no parity, address 1		
<b>Diagnostic Interface</b>			
Type	RS232		
<b>ASi</b>			
ASi Master-Profile	M1		
ASi cycle time	150µs * (number of nodes + 2)		
Operating voltage	30 V <sub>DC</sub> (20 ... 31,6 V) (PELV voltage)		

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Display	
LCD	displaying addresses and error messages
LED green (power)	power on
LED green (ser active)	Modbus interface
LED red (config error)	configuration error
LED green (U ASi)	ASi voltage OK
LED green (ASi active)	ASi normal operation active
LED green (prg enable)	automatic address programming enabled
LED yellow (prj mode)	the master is in configuration mode
Buttons	4
Environment	
EMC directions	according EN 50082, EN 50081
Ambient operating temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Housing	ASi master housing in stainless steel
Protection category EN 60 529	IP20
Tolerable loading referring to impacts and vibrations	according EN 61 131-2
Maximum tolerable shock and vibration stress	according EN 61 131-2
Voltage of insulation	≥ 500 V
Weight	460g
Dimensions (L, W, H)	120 / 75 / 83

Article no.	Operating current		
	Master power supply, ca. 200 mA out of ASi circuit	Master power supply, max. 200 mA out of ASi circuit 1 (ca. 70 mA ... 200 mA), max. 200 mA out of ASi circuit 2 (ca. 70 mA ... 200 mA); in sum max. 270 mA	Cost-effective power for 2 ASi networks with 1 power supply, approx. 250 mA (PELV voltage)
BWU1641	•	–	–
BWU1642	–	•	–
BWU1643	–	–	•

	BWU1641	BWU1642	BWU1643
Data decoupling integrated in the gateway	–	–	•
Redundant power supply out of ASi: all fundamental functions of the device remain available even in case of power failure in one of the two ASi networks	–	•	–
Current measurement of the ASi circuits	–	–	•
2 ASi networks with 1 power supply	–	–	•

## Accessories:

- Software "ASi Control Tools" with serial cable for ASi Master in Stainless Steel (art. no. BW1602)
- Interface converter RS 232C/RS 485 (art. no. BW1094)
- Power supplies, e.g.: ASi power supply, 4 A (art. no. BW1649), ASi power supply, 8 A (art. no. BW1997)  
(further power supply units can be found at [www.bihl-wiedemann.de/en/products/accessories/power-supplies](http://www.bihl-wiedemann.de/en/products/accessories/power-supplies))

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