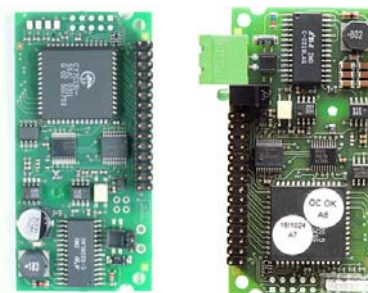# AS-i Master OEM Module

AS-i Master Board as OEM Module

**AS-i Master OEM Module for integration
in specific electronics**

AS-i Specification 3.0

**AS-i Master specialities as
AS-i Safety diagnostics, AS-i Analyser functions etc.**

Assembly variants optional, please contact us!

Article no. BW2176 with option for AS-i chip programming

Article no. BW1670 for use together with the evaluation kit BW1565

Article no. BW1588 for AS-i 3.0 for customer applications

Article no. BW1554 sample for different options

The AS-i Master realizes the functionality of a complete AS-i Master 3.0 on an OEM Module.

The module is supporting the following features:

- +5 V operating voltage
- 8 bit data bus
- 10 bit address bus
- Interrupt-capable
- AS-i connection also at 2.54 mm connection
- Wiring pin 2 x 15 pins 2.54 mm for the DPRAM Interface and serial interface (TTL)
- Optional: AS-i connection through COMBICON connectors on the front (BW1554)

The AS-i Master OEM Module is ideal for integration in specific electronics. The AS-i Master OEM Module fullfilss the new AS-i specification 3.0 and supports all new AS-i functions. Additionally the new OEM Module is supporting all AS-i Master specialities of Bihl+Wiedemann as the special AS-i Safety diagnostics, AS-i Analyser functions etc.

The AS-i Master OEM board BW1588 is the optimal version for use together with the main board of a customer today. AS-i has to be connected by soldering a cable on the board.

BW1670 has additionally two wiring pins for the AS-i connection so that this board can be used together with the evaluation kit without any change.

BW1554 is showing further possibilities like LEDs, a COMBICON for AS-i connection and so on.

Customer-specific special versions are possible on short notice!

Article no.	BW1554/BW1588/BW1670/BW2176
AS-i Specification	3.0
Type	OEM Module
Dimensions (L /W /H)	73mm, 37mm, 14mm
Weight	25g
Interface	8 bit bus interface; galvanic separation to AS-i
Operating voltage	5V DC and AS-i voltage
Operating current	approx. 100mA out of power supply approx. 70mA from AS-i
Voltage of insulation	$\geq 500V$
EMC directions	according EN 50 081-2, EN 61 000-6-2, EN 62026-2
Operating temperature	0°C … +55°C
Storage temperature	-25°C … +70°C
Tolerable loading referring to humidity	according EN 61 131-2
Tolerable loading referring to impacts	according EN 61 131-2
Tolerable loading referring to vibrations	according EN 61 131-2
AS-i cycle time per AS-i circuit	150µs * (number of slaves + 2)

Accessories:

- **Evaluation Kit for AS-i Master OEM Module (Art. no. BW1565)**
- **AS-i Configurator (Windows) "AS-i Control Tools"**