

AS-I Masters for OEM Applications

- Board-level Masters
- 8-bit Host Interface
- Advanced AS-I Diagnostics
- Small Form Factor



ASI-MM-PCB BW1670
ASI-MM-PCB BW1588
ASI-MMPCB BW1554 (shown)



Electrical

- Operating Current: <70 mA from AS-I, 100 mA from external supply (5 VDC)

Power Distribution

- AS-I and external supplies

Mechanical

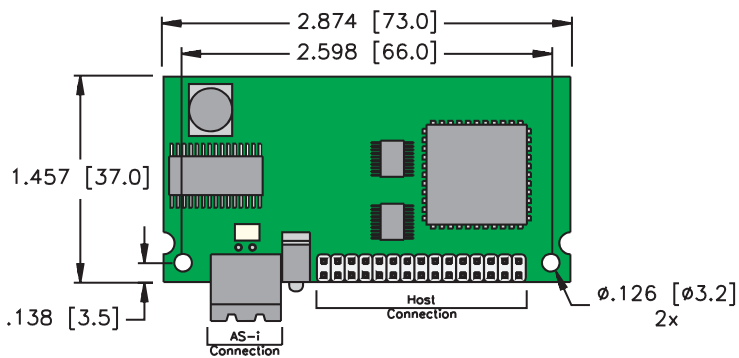
- Operating Temperature: 0 to +55 °C (+32 to +131°F)

Diagnostics (Logical)

- AS-I I/O errors can be reported via the peripheral fault bit for each slave (v2.1 and higher)

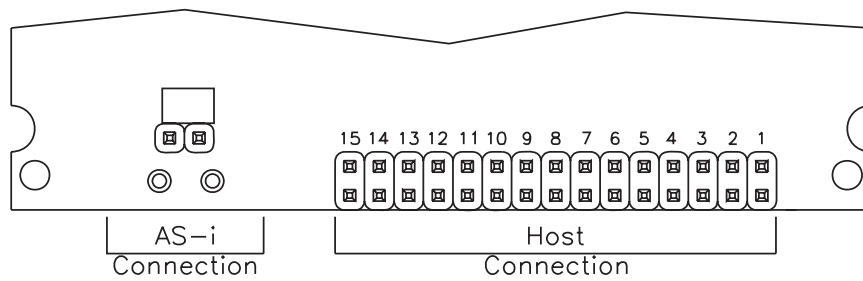
Diagnostics (Physical)

- LEDs to indicate status of AS-I communication and power supply (BW1554 only)

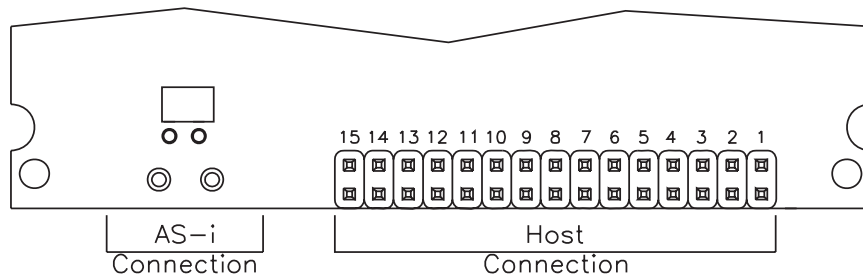


Part Number	AS-I Version	AS-I Connection	Diagram	# of AS-I Masters
ASI-MM-PCB BW1670*	2.1	Solder	A	1
ASI-MM-PCB BW1588	2.1	Solder	B	1
ASI-MM-PCB BW1554	2.1	Connector	C	1

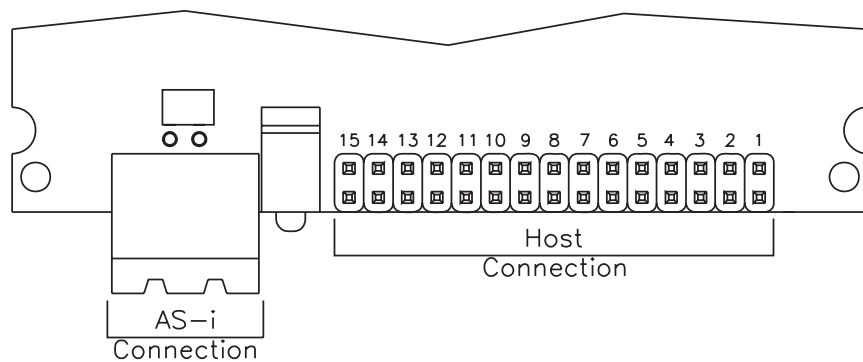
A



B



C



*Note: ASI-MM-PCB BW1670 is intended for use with the evaluation kit ASI-EVAL-KIT BW1565 (M108).

OEM AS-I Slaves

- PC-board Level Slaves
- Connection Options
- Various I/O Configurations
- Powered by AS-I



ASI-IOM-0202-PCB BW1421 shown



Electrical

- Operating Current: <200 mA from AS-I (including all I/O)

Power Distribution

- Inputs: AS-I supply
- Outputs: AS-I supply

Mechanical

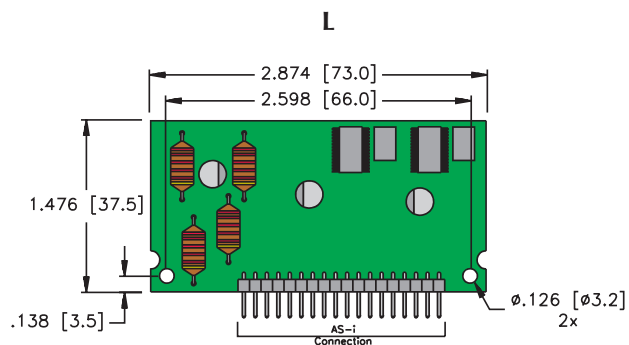
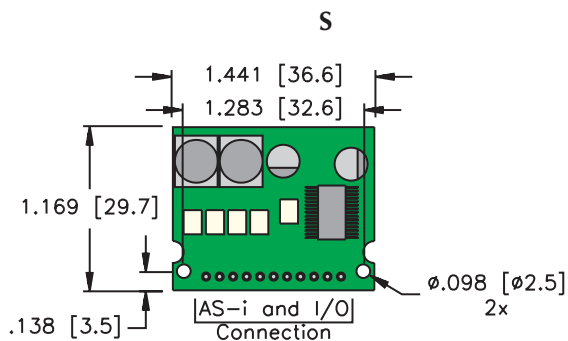
- Operating Temperature: -25 to +70°C (-13 to +158°F)
- Vibration: 15 g @ 10...55 Hz

Diagnostics (Logical)

- I/O faults are indicated by the peripheral fault bit

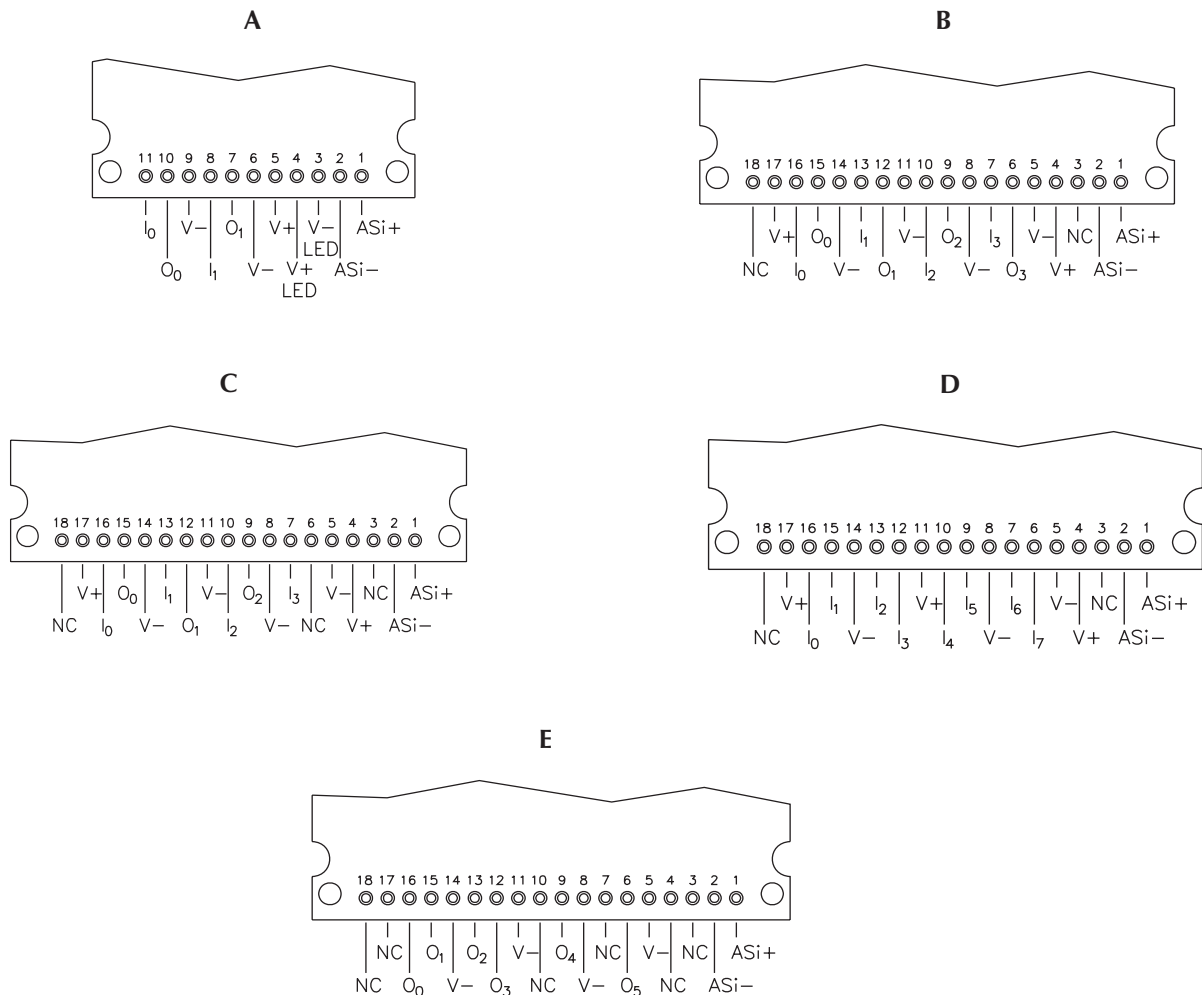
Diagnostics (Physical)

- One LED indicates an I/O fault for the slave



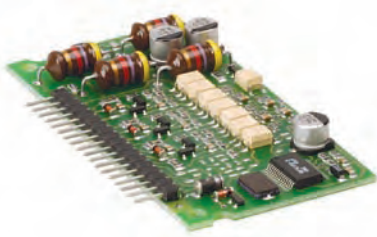
Part Number	Input Count	Output Count	Output Current (per Output)	Output Current (sum of all Outputs)	I/O Power	LEDs	Connector	A/B Address	Addresses	Slave Profile	Drawing	Pinout
ASI-IOM-0202-PCB BW1421	2	2	80 mA	80 mA	AS-I		NONE	Y	1	B.A-E	S	A
ASI-IOM-0202-PCB BW1443	2	2	80 mA	80 mA	AS-I		SCR	Y	1	B.A-E	S	A
ASI-IOM-0202-PCB BW1444	2	2	80 mA	80 mA	AS-I		PIN	Y	1	B.A-E	S	A
ASI-IOM-0403-PCB BW1386	4	3	80 mA	80 mA	AS-I		PIN	Y	1	7.A-E	L	C
ASI-IOM-0403-PCB BW1387	4	3	80 mA	80 mA	AS-I		SCR	Y	1	7.A-E	L	C
ASI-IOM-0404-PCB BW1218	4	4	100 mA	180 mA	AS-I		PIN	N	1	7.0-F	L	B
ASI-IOM-0404-PCB BW1219	4	4	100 mA	180 mA	AS-I		SCR	N	1	7.0-F	L	B
ASI-IOM-0404-PCB-L BW1470	4	4	100 mA	180 mA	AS-I	X	SCR	N	1	7.0-F	L	B
ASI-IOM-0006-PCB BW1627	0	6	100 mA	180 mA	AS-I		SCR	Y	2	8.A-0	L	E
ASI-IOM-0800-PCB BW1351	8	0	-	-	AS-I		PIN	Y	2	0.A-2	L	D
ASI-IOM-0800-PCB BW1352	8	0	-	-	AS-I		SCR	Y	2	0.A-2	L	D

Note: SCR=Screw Terminal connection; PIN=Edge Pin connection



OEM AS-I Slaves

- PC-board Level Slaves
- Connection Options
- A/B Address Support
- Powered by Auxiliary Power



Electrical

- Operating Current: <20 mA from AS-I
- Input Current: <180 mA from AS-I (BW1628 only)
- Output Current: see table on facing page

Power Distribution

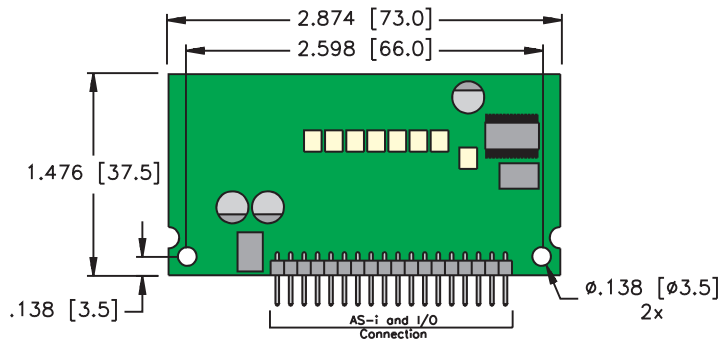
- Inputs: AS-I supply (BW1628)
 Auxiliary supply (BW1388, BW1389)
- Outputs: Auxiliary supply

Mechanical

- Operating Temperature: -25 to +70°C (-13 to +158°F)
- Vibration: 15 g @ 10 to 55 Hz

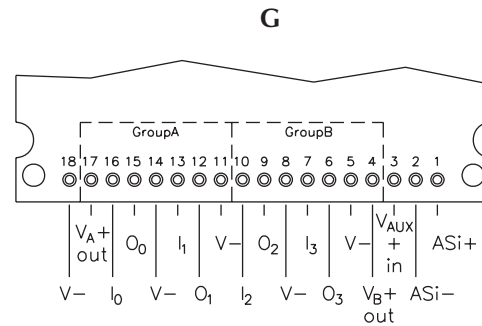
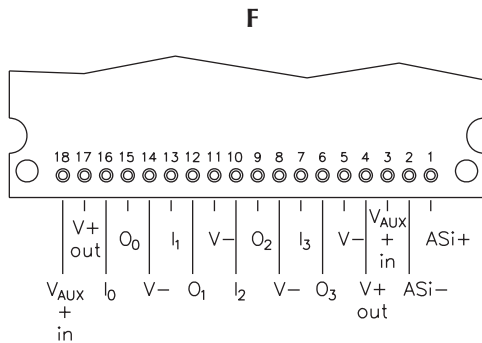
Diagnostics (Logical)

- I/O faults are indicated by the peripheral fault bit



Part Number	Input Count	Output	Output Current (per Output)	Output Current (sum of all Outputs)	I/O Power Source	LEDs	Connector	A/B Address	Addresses	Slave Profile	Drawing	Pinout
ASI-IOM-0404A-PCB-L-BW1628	4	4	150 mA	500 mA	AS-i/Aux	X	SCR	N	1	7.0-E	L	F
ASI-IOM-0404A-PCB-BW1388	4	4	100 mA	200 mA	Aux		PIN	N	1	7.0-F	L	G
ASI-IOM-0404A-PCB-BW1389	4	4	100 mA	200 mA	Aux		SCR	N	1	7.0-F	L	G

Note: SCR=Screw Terminal connection; PIN=Edge Pin connection



OEM AS-I Slaves



ASI-IOM-0808-PCB BW1898 shown

- ASI-IOM-0808-PCB -BW1898**
- ASI-IOM-0808-PCB-V3-BW1899**
- ASI-IOM-1616-PCB-BW1900**
- ASI-IOM-1616-PCB-V3-BW1901**

- PC-board Level Slaves
- Multiple Slaves on One Board
- I/O Count Choices
- Powered by AS-I

Electrical

- Operating Current: <400 mA (BW1898, BW1899), <500 mA (BW1900, BW1901) from AS-I (including all I/O)

Power Distribution

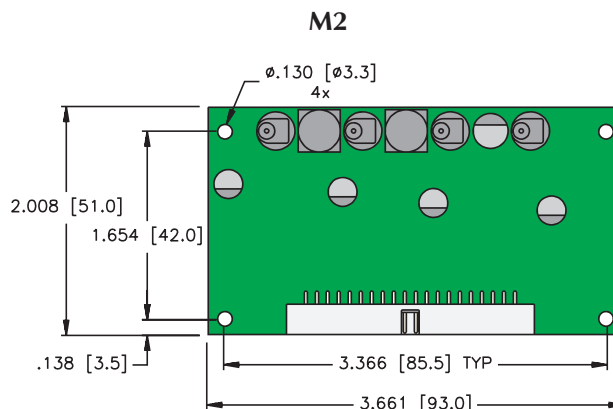
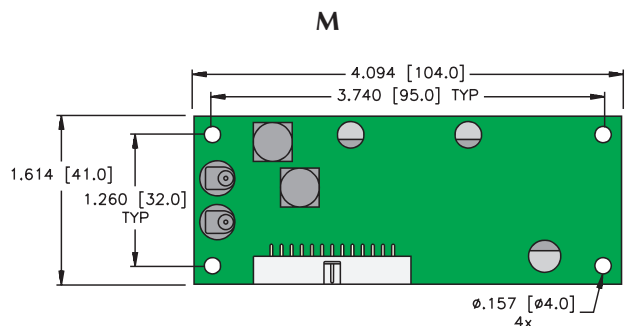
- Inputs: AS-I supply
- Outputs: AS-I supply

Mechanical

- Operating Temperature: -25 to +70°C (-13 to +158°F)
- Vibration: 15 g @ 10 to 55 Hz

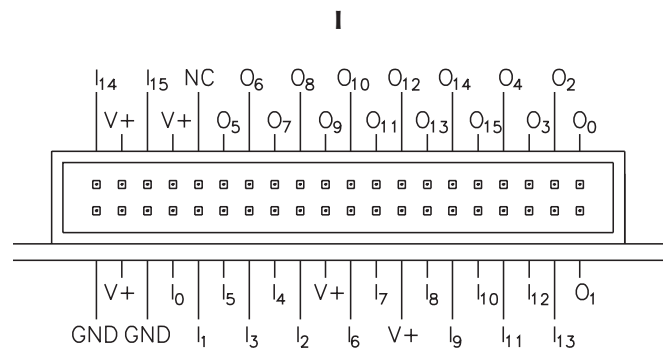
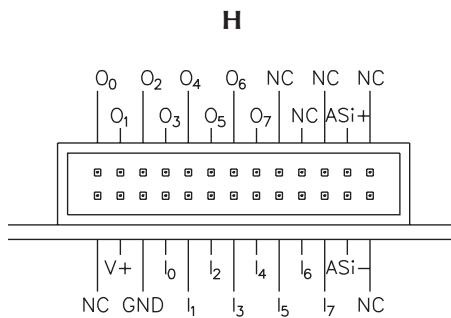
Diagnostics (Logical)

- I/O faults are indicated by the peripheral fault bit



Part Number	Input Count	Output Count	Output Current (per Output)	Output Current (sum of all Outputs)	I/O Power	LEDs	Connector	A/B Address	Addresses	Slave Profile	Drawing	Pinout
ASI-IOM-0808-PCB -BW1898	8	8	70	200 mA	AS-I		CON	N	2	7.F-F-E	M	H
ASI-IOM-0808-PCB-V3-BW1899	8	8	70	200 mA	AS-I		CON	Y	2	7.A-7-7	M	H
ASI-IOM-1616-PCB-BW1900	16	16	70	200 mA	AS-I		CON	N	4	7.F-F-E	M2	I
ASI-IOM-1616-PCB-V3-BW1901	16	16	70	200 mA	AS-I		CON	Y	4	7.A-7-7	M2	I

Note: CON=Plug In connection



OEM AS-I Slaves



- PC-board Level Slave
- Relay Outputs
- For AC Control
- Powered by AS-I

Electrical

- Operating Current: <85 mA from AS-I (including all I/O)
- Output Current: <10 A total (through relays)

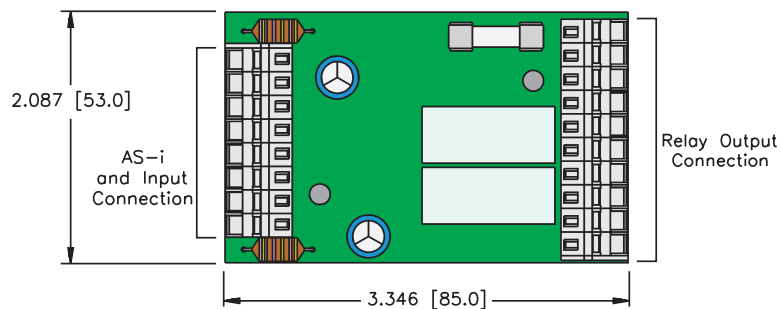
Power Distribution

- Inputs: AS-I supply
- Outputs: AS-I supply (switching)

Mechanical

- Operating Temperature: 0 to +60°C (+32 to +140°F)

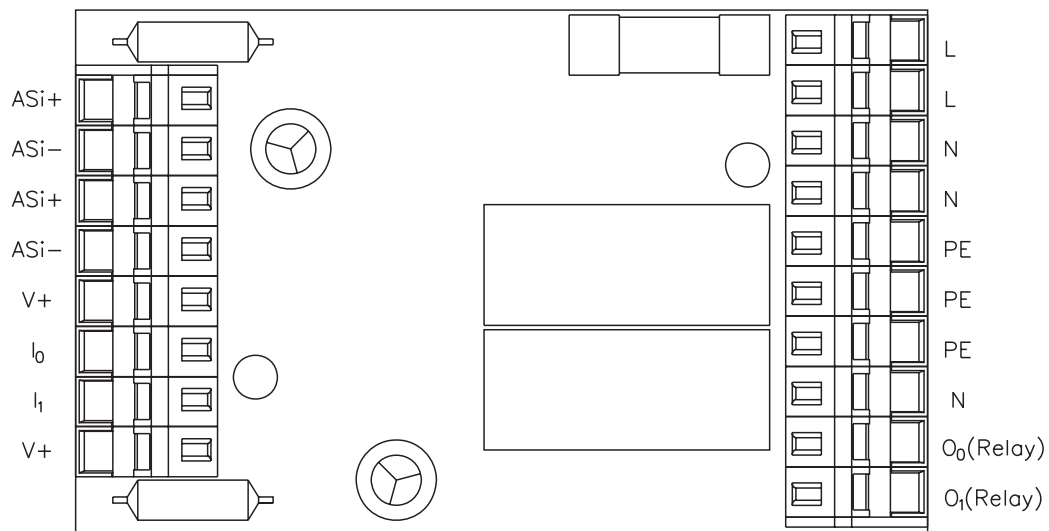
ASI-IOM-0202R-PCB BW1101



Part Number	Input Count	Output Count	Output Current (sum of all)	I/O Power Source	LEDs	Connector	A/B Address	Addresses Consumed	Slave Profile	Drawing	Pinout
ASI-10M-0202R-PCB BW1101	2	2	10 A	AS-I		CAG	N	1	B.F	R	J

Note: CAG=Cage Clamp connection

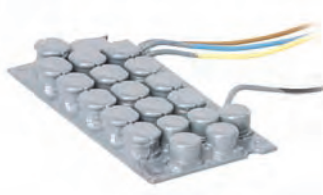
J



AS-interface

OEM Power Converter

- Coated PC-board
- Aux. Power From AS-I
- Can Eliminate the Need for a Separate Auxiliary Supply



ASI-OEM-PWR BW1485



Electrical

- Operating Voltage: 20 to 30 VDC (from AS-I)
- Output Current: <1.5 A

Mechanical

- Operating Temperature: -25 to +70°C (-13 to +158°F)
- Vibration: 15 g @ 10 to 55 Hz

OEM AS-I Accessories

- Carrier of OEM Slaves
- Supports Wiring Pin Connections
- Holds Up To 3 Boards



ASI-PCB-CARRIER BW1484

