

GENERAL DESCRIPTION

The OEM-boards can be used in applications where surface mounted assembly is not possible or where fast and easy setup of a prototype application is necessary. All OEM-boards can be delivered with the corresponding pin socket for easy attachment onto a custom motherboard.

TECHNICAL DESCRIPTION

The OEM-board has an onboard voltage monitoring IC and decoupling capacitors for the power supplies.

One 40-pin header is present on all OEM-boards and have all necessary pins routed out from the Bluetooth module. The multimedia modules also have a 14-pin header to connect stereo speakers and microphone.

Note that all pins on the header are not connected to the module; please use the full datasheet for each module and firmware for more information about the functionality of the available pins on the pin header.

40-pin header (all OEM-boards)

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Pin nr	Description	Direction		
1	+VCC_BT	Power		
2	GND	GND		
3	+VCC_PA	Power		
4	SPI_CLK	I/O		
5	/RESET	IN		
6	SPI_MISO	I/O		
7	GND	GND		
8	SPI_MOSI	I/O		
9	TX	OUT		
10	SPI_CSB	I/O		
11	RX	IN		
12	GND	GND		
13	CTS	OUT		
14	PCM_CLK	I/O		
15	RTS	IN		
16	PCM_OUT	OUT		
17	USB-	I/O		
18	PCM_SYNC	Ī/O		
19	USB+	I/O		
20	PCM_IN	IN		
21	GND	GND		
22	GND	GND		
23	PIO[5]	GPIO		
24	PIO[6]	GPIO		
25	PIO[4]	GPIO		
26	PIO[7]	GPIO		
27	PIO[3]	GPIO		
28	PIO[8]	GPIO		
29	PIO[2]	GPIO		
30	PIO[9]	GPIO		
31	PIO[1]	GPIO		
32	PIO[10]	GPIO		
33	PIO[0]	GPIO		
34	PIO[11]	GPIO		
35	GND	GND		
36	GND	GND		
37	AIO[0]	GPIO		
38	AIO[3]	GPIO		
39	AIO[1]	GPIO		
40	AIO[2]	GPIO		

14-pin header (only multimedia modules)

Pin nr	Description	Direction
1	GND	GND
2	GND	GND
3	IN_N_R	IN
4	OUT_P_R	OUT
5	IN_P_R	IN
6	OUT_N_R	OUT
7	GND	GND
8	GND	GND
9	IN_N_L	IN
10	OUT_P_L	OUT
11	IN_P_L	IN
12	OUT_N_L	OUT
13	AUX_DAC	OUT
14	GND	GND

Connector information			
Part	Partnr.	Manufacturer	
40-pin header	BB02-BS401-KB5-030B00	Gradconn	
14-pin header	BB02-BS141-KB5-030B00	Gradconn	
40-pin socket	BB02-CR402-K05-000000	Gradconn	
14-pin socket	BB02-CR142-K05-000000	Gradconn	

Pitch: 1.27mm



Image of F2M02GLA (top view)



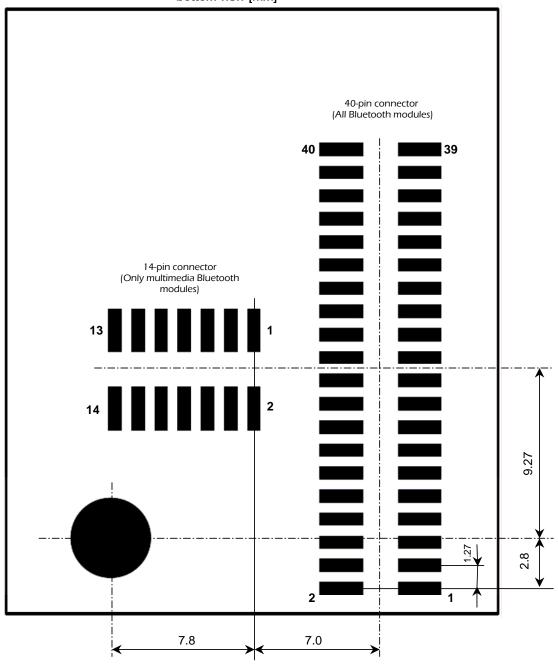
Image of F2M02MLA (bottom view)





LAYOUT

bottom view [mm]





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ORDERING INFORMATION

Bare OEM-boards

Part nr.	Description
F2M02MLA-S03	OEM-board with F2M03MLA Bluetooth module, Wireless Audio firmware
F2M02GLA-S01	OEM-board with F2M03GLA Bluetooth module, Wireless UART v4 firmware
F2M02GX-S01	OEM-board with F2M03GX Bluetooth module, Wireless UART v4 firmware
F2M02GXA-S01	OEM-board with F2M03GXA Bluetooth module, Wireless UART v4 firmware

OEM-boards with additional connectors (and antenna)

Part nr.	Description
F2M02MLA-S03-K	OEM-board with F2M03MLA, Wireless Audio, 14 and 40pin sockets
F2M02GLA-S01-K	OEM-board with F2M03GLA, Wireless UART v4, 40pin socket
F2M02GX-S01-K	OEM-board with F2M03GX, Wireless UART v4, 40pin socket, monopole antenna
F2M02GXA-S01-K	OEM-board with F2M03GXA, Wireless UART v4, 40pin socket

