

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	I/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	
40	MU[Z]	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)



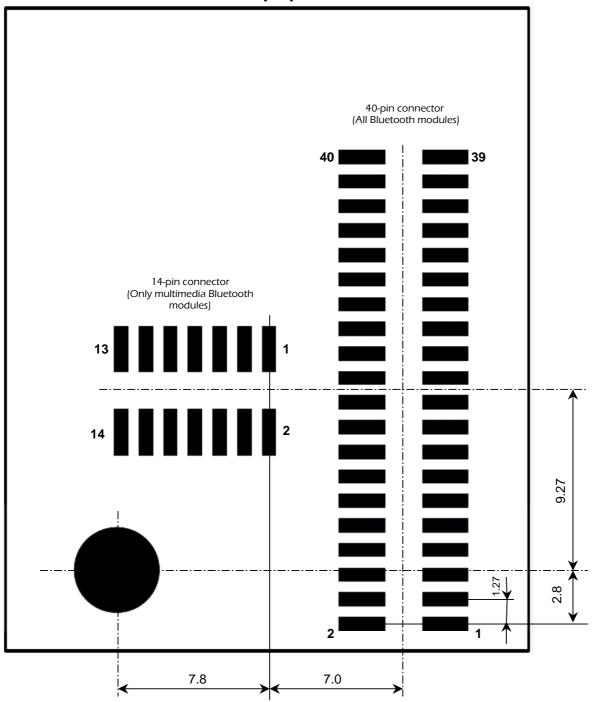
Image of F2M02MLA (bottom view)





LAYOUT

bottom view [mm]







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)

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	Part nr.	Description
, , , , , , , , , , , , , , , , , , , ,	F2M02MLA-S03-K	ILA-S03-K OEM-board with F2M03MLA, Wireless Audio, 14 and 40pin sockets
F2M02GX-S01-K OFM-board with F2M03GX Wireless LIART v4 40pin socket monopole antenna	F2M02GLA-S01-K	LA-S01-K OEM-board with F2M03GLA, Wireless UART v4, 40pin socket
1 ZWOZGZ-301-K OEW-DOGIA WITH ZWOJGZ, WITCIGS OAKT VI, TOPIH SOCKCI, MONOPOIC BITTERING	F2M02GX-S01-K	X-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	F2M02GXA-S01-K	XA-S01-K OEM-board with F2M03GXA, Wireless UART v4, 40pin socket



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