

Stückliste

Projekt-File:	BiDiB_GBM_Boost_1.6.sch
Projekt:	OpenDCC GBM
Modul:	GBMboost
Revision:	Version 1.6
Kunde:	--
Bearbeiter:	C.Schörner

Serienstatus
SMD-Bausatz:
Bauteile werden vom Platinenhersteller bestückt
alternatives Package zu vorheriger Komponente
manuelle Bestückung durch den Anwender Bauteile werden nicht bestückt



Löt-Bausatz:
Der Anwender muss die Bauteile der Farben **GRÜN** und **GRAU** bestücken.

Alle Bauteile herstellernunabhängig, wenn Eintrag in der Spalte Hersteller nicht mit !! beginnt.

Stücklisten Version 1.0

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Pos	Menge	Bezeichnung	Wert	Beschreibung	Bauform	Hersteller	Hersteller Nr.	Hinweis
1	1	C12	n.f.	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
2	1	C15	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
3	1	C16	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
4	1	C17	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
5	1	C20	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
6	1	C21	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
7	1	C22	150u/25V	Capacitor, Polymer, I(ripple) > 1A, 20V (better 25V) (120uF also possible)	F12	Sanyo	20SVP150M	
8	1	C23	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
9	1	C24	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
10	1	C25	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
11	1	C27	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
12	1	C28	1µ/20V	Capacitor	C0603			
13	1	C29	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
14	1	C32	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
15	1	C50	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
16	1	C51	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
17	1	C52	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
18	1	C53	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
19	1	C54	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
20	1	C55	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
21	1	C56	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
22	1	C57	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
23	1	C58	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
24	1	C59	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
25	1	C60	10µ/10V	Capacitor	C1206			
26	1	C61	15p	Capacitor ceramic NP0, 10%	C0603			
27	1	C62	15p	Capacitor ceramic NP0, 10%	C0603			
28	1	C63	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
29	1	C64	1µ	Capacitor ceramic X7R, 10%	C0603			
30	1	C70	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	Xpressnet Schnittstelle
31	1	C90	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
32	1	C91	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)	
33	1	C93	10µ/10V	Capacitor	C1206			
34	1	D3	BAS70-04A	Standard Diode (BAV99, BAT54S may be used as well)	SOT23			
35	1	D37	BAS70-04A	Silicon Schottky Diodes, Dual, Series, 100mA (alternative BAT54S)	SOT23	NXP	BAS70-04A	
36	1	D38	BAS70-04A	Silicon Schottky Diodes, Dual, Series, 100mA (alternative BAT54S)	SOT23	NXP	BAS70-04A	
37	1	D39	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T	
38	1	D43	3V3	Z-Diode, 5%, 500mW	SOD80		BZV55C3V3	
39	1	D44	SM712.TCT	Semtech, Dual TVS Diode for RS486	SOT23	Semtech	SM712.TCT	
40	1	D45	SM712.TCT	Semtech, Dual TVS Diode for RS486	SOT23	Semtech	SM712.TCT	
41	1	D50	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T	
42	1	D51	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T	
43	1	D52	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T	
44	1	F1	1A	Fuse	SMD_SF			
45	1	F2	1A	Fuse	SMD_SF			
46	1	IC2	ISL3175EIBZ	RS485 Interface Transceiver, 3V3, 500kBaud, halfduplex	SOIC8	Intersil	ISL3175EIBZ	
47	1	IC3	ISL3175EIBZ	RS485 Interface Transceiver, 3V3, 500kBaud, halfduplex	SOIC8	Intersil	ISL3175EIBZ	
48	1	IC70	ISL3175EIBZ	RS485 Interface Transceiver, 3V3, 500kBaud, halfduplex	SOIC8	Intersil	ISL3175EIBZ	Xpressnet Schnittstelle
49	0	IC2, IC3, IC70	SN65HVD12	RS485 Transceiver 500kBaud, 3V3,	SOIC8	Texas Instruments	SN65HVD12, Max3075E, Exar3175	
50	1	IC4	74HC02D	Quad 2-input NOR gate (HC or HCT)	SO14			
51	1	IC5	7812	Positive VOLTAGE REGULATOR	TO220V			
52	1	IC11	BTM7752	Infineon H-Bridge, 8A peak	PG-DSO-36-29	Infineon	BTM7752	
53	1	IC50	ATXMEGA128A	8-Bit, 32MHz, AVR	TQFP100	Atmel	ATXMEGA128A1-AU	
54	1	IC51	LP2951CMX-33	Voltage Regulator, Lowdrop, 3,3V, 100mA	SOIC08	TaiwanSemi	TS2951CS3.3	
55	1	IC52	LP2950CZ3.3	Voltage Regulator, Lowdrop, 3,3V, 100mA	TO92	TaiwanSemi	TS2950-3.3	
56	1	IC90	FT232RL	USB UART	SSOP28DB	FTDI	FT232RL	
57	1	J2	J-06-2MM-2X	HEADER JACK PINS	HDR-2MM-2X03_D08			
58	1	J3	J-02-S	HEADER JACK PINS	SIP-100-02			
59	1	J4	J-10-2MM-2X	HEADER JACK PINS	HDR-2MM-2X05_D08			
60	1	J5	J-02-S	HEADER JACK PINS	SIP-100-02			
61	1	J7	P-04-SIP-10	HEADER PLUG PINS, single row, 4 Pins	SIP-100-04			
62	1	J8	P-04-SIP-10	HEADER PLUG PINS, single row, 4 Pins	SIP-100-04			
63	1	J50	AVR-ISP-6	AVR ISP-6 Serial Programming Haeder	AVR-ISP-6			
64	1	J51	J-06-2MM-2X	HEADER JACK PINS	HDR-2MM-2X03_D08			

Pos	Menge	Bezeichnung	Wert	Beschreibung	Bauform	Hersteller	Hersteller Nr.	Hinweis
65	1	J52	J-06-2MM-2X	HEADER JACK PINS	HDR-2MM-2X03_D08			
66	1	J53	J-06-2MM-2X	HEADER JACK PINS	HDR-2MM-2X03_D08			
67	1	J54	J-08-2MM-2X	HEADER JACK PINS	HDR-2MM-2X04			
68	1	J55	AVR-JTAG-10	AVR JTAG Debug/Programming Header	AVR-JTAG-10			
69	1	J70	RJ12, SMT or THT 555077-1	AMP connector	555077-1			only Master Xpressnet Schnittstelle
70	1	J71	RJ12, SMT or THT 555077-1	AMP connector	555077-1			only Master Xpressnet Schnittstelle
71	1	J72	J-02-S	HEADER JACK PINS, 2x1, Grid 2,54	SIP-100-02			only Master Xpressnet Schnittstelle
72	1	J80	RJ45, THT	AMP connector	520260-4			
73	1	J81	RJ45, THT	AMP connector	520260-4			
74	1	J90	Mini B	USB-B Mini, SMD, 5-polig	USB-MB-S	FCI	10033526-N3212MLF	
75	1	J91	P-06-SIP-10	HEADER PLUG PINS	SIP-100-06			
76	1	L2	40R/100MHz	SMD EMI Suppression Ferrite Beads, 0.3A	0603	Wuerth	74279260	
77	1	L90	40R/100MHz	SMD EMI Suppression Ferrite Beads, 0.3A	0603	Wuerth	74279260	
78	1	LED21	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296	
79	1	LED50	green	LED, SMD, green, 4mcd@2mA	0603	Liteon	LTST C190 KGKT	
80	1	LED51	green	LED, SMD, green, 4mcd@2mA	0603	Liteon	LTST C190 KGKT	
81	1	LED52	green	LED, SMD, green, 4mcd@2mA	0603	Liteon	LTST C190 KGKT	
82	1	LED53	green	LED, SMD, green, 4mcd@2mA	0603	Liteon	LTST C190 KGKT	
83	1	OC3	HCPL0500	High Speed OC, SO8	SOIC08	HP	HCPL0500	
84	1	Q5	BSS123	BSS123 (or NTR4501)	SOT23			
85	1	Q6	BSS123	BSS123	SOT23			
86	1	Q7	BSS123	BSS123	SOT23			
87	1	Q8	IFR7416	P-Channel MOSFET, 20V, 8A (Si4401, Si9435)	SO-08	Vishay	SI4401DY	
88	1	Q50	8MHz	(alternativ)	TAITIEN_XQ	TAITIEN	XQHGL 8.0 MHz	
89	1	Q51	8MHz	CRYSTAL, 8MHz	HC49UP			
90	1	R30	120	RESISTOR, European symbol	R0603			
91	1	R31	470	RESISTOR, European symbol	R0603_SJ			
92	1	R32	470	RESISTOR, European symbol	R0603_SJ			
93	1	R33	120	RESISTOR, European symbol	R0603			
94	1	R34	1k	RESISTOR, European symbol	R0603_SJ			
95	1	R35	20k	RESISTOR, European symbol	R0603			
96	1	R36	1k	RESISTOR, European symbol	R0603			
97	1	R37	22	RESISTOR, European symbol	R0603			
98	1	R38	22	RESISTOR, European symbol	R1206			
99	1	R39	0R	RESISTOR, European symbol	R0603_SJ			
100	1	R41	0R	RESISTOR, European symbol	R0603_SJ			
101	1	R44	10k	RESISTOR, European symbol	R0603_SJ			
102	1	R47	10k	RESISTOR, European symbol	R0603_SJ			
103	1	R48	1k5	RESISTOR, European symbol	R0603_SJ			
104	1	R49	470	RESISTOR, European symbol	R0603			
105	1	R51	1k	RESISTOR, European symbol	R1206			
106	1	R52	10k	RESISTOR, European symbol	R0603_SJ			
107	1	R53	10k	RESISTOR, European symbol	R0603_SJ			
108	1	R54	1k	RESISTOR, European symbol	R0603_SJ			
109	1	R55	4R7	RESISTOR, European symbol	R0603_SJ			
110	1	R57	4k7	RESISTOR, European symbol	R0603			only Master
111	1	R58	4k7	RESISTOR, European symbol	R0603			only Master
112	1	R59	22	RESISTOR, European symbol	R1206			Xpressnet Schnittstelle
113	1	R62	4R7	RESISTOR, European symbol	R1206			
114	1	R63	4R7	RESISTOR, European symbol	R1206			
115	1	R64	4R7	RESISTOR, European symbol	R1206			
116	1	R65	4R7	RESISTOR, European symbol	R1206			
117	1	R67	470	RESISTOR, European symbol	R0603			
118	1	R68	470	RESISTOR, European symbol	R0603			
119	1	R74	120	RESISTOR, European symbol	R0603			Xpressnet Schnittstelle
120	1	R75	47k	RESISTOR, European symbol	R0603			Xpressnet Schnittstelle
121	1	R76	47k	RESISTOR, European symbol	R0603			Xpressnet Schnittstelle
122	1	R92	4k7	RESISTOR, European symbol	R0603			
123	1	R93	10k	RESISTOR, European symbol	R0603			
124	1	R94	10k	RESISTOR, European symbol	R0603			
125	1	R100	1k	RESISTOR, European symbol	R1206			only Master
126	1	RN11	1k	Array Chip Resistor, 10%	1206-CRAM			
127	1	RN50	1k	Array Chip Resistor, 10%	1206-CRAM			
128	1	S2	SMD	9314 SMD type	9314_SMD	Schurter	9314 SMD type	
129	1	SJ	-	SMD solder JUMPER	R0603_SJ			
130	1	SJ1	-	SMD solder JUMPER	R0603_SJ			
131	1	SJ2	-	SMD solder JUMPER	R0603_SJ			
132	1	SJ5	-	SMD solder JUMPER	SJX			
133	1	SJ6	-	SMD solder JUMPER	SJX			
134	1	SJ31	-	SMD solder JUMPER	R0603_SJ			
135	1	SJ40	-	SMD solder JUMPER	SJ			
136	1	SJ91	-	SMD solder JUMPER	SJ			
137	1	K1	Heatsink	fischer elektronik, height: 10mm, length 13mm	LF-13	Fischer Elektronik	FK251-10 LFP	
138	1	X12		SMD Löt pads	SMD_PAD100			
139	1	X13	PR10	Single Pad	PAD_1.0			
140	1	X15	PR10	Single Pad	PAD_1.0			
141	1	X17	PR10	Single Pad	PAD_1.0			
142	1	X19	PR10	Single Pad	PAD_1.0			
143	1	X21	PR10	Single Pad	PAD_1.0			
144	1	X27	PR10	Single Pad	PAD_1.0			
145	1	X28	PR10	Single Pad	PAD_1.0			
146	1	X29	PR10	Single Pad	PAD_1.0			
147	1	X30		RIA Anschlussklemme Typ 59, Raster 3,5mm, Polzahl 2	2POL35			
148	1	X34		WAGO SREW CLAMP, Grid 5,08, 4polig	W237-4P	or equivalent		
149	1	PCB	PCB	PCB OpenDCC GBM				