

Stückliste

Serienstatus



Projekt-File:	BiDiB_GBM_Boost_1.8.sch
Projekt:	OpenDCC GBM
Modul:	GBM16T
Revision:	Version 1.8
Kunde:	--
Bearbeiter:	C.Schörner

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.

Toleranzen: Widerstände: 5%, Kondensatoren, Spulen 20%, wenn nichts angegeben wurde.
Alle Bauteile herstellernunabhängig, wenn Eintrag in der Spalte Hersteller nicht mit !! beginnt.

Stücklisten Version 2.0

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Pos	Menge	Bezeichnung	Wert	Beschreibung	Bauform	Hersteller	Hersteller Nr.
1	1	C1	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
2	1	C2	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
3	1	C3	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
4	1	C4	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
5	1	C5	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
6	1	C6	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
7	1	C7	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
8	1	C8	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
9	1	C9	22u	Capacitor, 22uF, 6.3V or larger	D/7343-31W		
10	1	C10	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
11	1	C11	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
12	1	C13	15p	Capacitor ceramic NP0, 10%	C0603		
13	1	C14	15p	Capacitor ceramic NP0, 10%	C0603		
14	1	C19	n.f.	Capacitor ceramic	C1210		
15	1	C26	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
16	1	C30	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
17	1	C31	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
18	1	C36	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
19	1	C37	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
20	1	C41	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
21	1	C42	22u/25V	POLARIZED Capacitor	D/7343-31W		
22	1	C43	1u/20V	Capacitor, X7R, 20V (min. 6.3V)	C0603	TDK	CGA3E3X5R1H105K
23	1	C44	n.f.	Capacitor ceramic THT Alternative	C1812		
24	1	C45	100n	Capacitor ceramic X7R, 10%	C0603	Kemet	C0603C104K5RAC(7411)
25	1	C80	22u	Capacitor, 22uF, 6.3V or larger	D/7343-31W		
26	1	C81	n.f.	(may be used instead C80)	C1210		
27	1	D1	3V3	Z-Diode, 5%, 500mW	SOD80		BZV55C3V3
28	1	D2	BAS70-04A	Standard Diode (BAV99, BAT54S may be used as well)	SOT23		
29	1	D4	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
30	1	D5	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
31	1	D6	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
32	1	D7	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
33	1	D8	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
34	1	D9	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
35	1	D10	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
36	1	D11	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
37	1	D12	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
38	1	D13	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
39	1	D14	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
40	1	D15	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
41	1	D16	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
42	1	D17	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
43	1	D18	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
44	1	D19	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
45	1	D20	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
46	1	D21	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
47	1	D22	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
48	1	D23	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
49	1	D24	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
50	1	D25	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
51	1	D26	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
52	1	D27	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
53	1	D28	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
54	1	D29	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
55	1	D30	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
56	1	D31	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
57	1	D32	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
58	1	D33	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T

Pos	Menge	Bezeichnung	Wert	Beschreibung	Bauform	Hersteller	Hersteller Nr.
59	1	D34	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
60	1	D35	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
61	1	D36	BAS70-04A	Silicon Schottky Diodes, Dual, Series, 100mA (alternative BAT54S)	SOT23	NXP	BAS70-04A
62	1	D40	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
63	1	D41	SSA33L	Schottky Diode, 30V, 3A	DO214AC	Vishay	SSA33L-E3/61T
64	1	D42	SM6T	Transil Diode, STmicro, SM6T, 25V	DO214AA		
65	1	IC1	ATXMEGA128A	8-Bit, 32MHz, AVR	TQFP100	!!Atmel	ATXMEGA128A1-AU
66	1	IC6	n.f.		TO220V		
67	1	IC31	ADUM1201	ADuM1201ARZ high speed magnetic coupler	SOIC08	Analog Devices	ADUM1201
68	1	IC33	ADUM1201	ADuM1201ARZ, (or TI ISO7221)	SOIC08	Analog Devices	ADUM1201
69	1	IC40	LP2951CMX-33	Voltage Regulator, Lowdrop, 3,3V, 100mA	SOIC08	TaiwanSemi	TS2951CS3.3
70	1	IC41	LP2950CZ3.3	Voltage Regulator, Lowdrop, 3,3V, 100mA	TO92	TaiwanSemi	TS2950-3.3
71	1	J1	J-06-2MM-2X	HEADER JACK PINS	HDR-2MM-2X03_D08		
72	1	J6	J-06-2MM-2X	HEADER JACK PINS	HDR-2MM-2X03_D08		
73	1	J10	J-03-	HEADER JACK PINS, 3x1, Grid 2,54	HDR-100-1X03	Header 2x3, Grid 2,54	
74	1	J11	J-03-	HEADER JACK PINS, 3x1, Grid 2,54	HDR-100-1X03		
75	1	J40	Mini B	USB-B Mini, SMD, 5-polig	USB-MB-S	FCI	10033526-N3212MLF
76	1	J55	AVR-JTAG-10	AVR JTAG Debug/Programming Header	AVR-JTAG-10		
77	1	JP1	AVR-ISP-6	AVR ISP-6 Serial Programming Haeder	AVR-ISP-6		Header 2 x 3, 2,54 Grid
78	1	JP3	AVR-JTAG-10	AVR JTAG Debug/Programming Header	AVR-JTAG-10		
79	1	SJ30	22R	RESISTOR, European symbol	R0603		
80	1	L1	40R/100MHz	SMD EMI Suppression Ferrite Beads, 0.3A	0603	Wuerth	74279260
81	1	LED1	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
82	1	LED2	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
83	1	LED3	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
84	1	LED4	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
85	1	LED5	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
86	1	LED6	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
87	1	LED7	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
88	1	LED8	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
89	1	LED9	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
90	1	LED10	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
91	1	LED11	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
92	1	LED12	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
93	1	LED13	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
94	1	LED14	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
95	1	LED15	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
96	1	LED16	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
97	1	LED17	yellow	LED, SMD, yellow, 8mcd@2mA	0603	Osram	LY L296
98	1	LED18	green	LED, SMD, green, 4mcd@2mA	0603	Liteon	LTST C190 KGKT
99	1	LED19	green	LED, SMD, green, 4mcd@2mA	0603	Liteon	LTST C190 KGKT
100	1	LED20	red	LED, SMD, red, 8mcd@2mA	0603	Osram	LS L296
101	1	OC1	PC354	Standard OC, SO4 (PC354 or TLP181L)	SO-4L	Sharp	PC354
102	1	OC2	PC354	Alternative for OC1, larger Package	SO4XL	Sharp	PC354
103	1	Q1	8MHz	(alternativ)	TAITIEN_XQ	TAITIEN	XQHGL 8.0 MHz
104	1	Q2	8MHz	CRYSTAL, 8MHz	HC49UP	Taitien	XJSEGCNANF-8.000000MHz
105	1	Q3	BSS123	BSS123	SOT23		
106	1	Q4	BSS123	BSS123	SOT23		
107	1	R1	1k	RESISTOR, European symbol	R0603_SJ		
108	1	R2	47R	RESISTOR, European symbol	R0603_SJ		
109	1	R20	10k	RESISTOR, European symbol	R0603_SJ		
110	1	R21	100R	RESISTOR, European symbol	R1206		
111	1	R22	10k	RESISTOR, European symbol	R0603_SJ		
112	1	R23	22R	RESISTOR, European symbol	R0603		
113	1	R24	1k	RESISTOR, European symbol	R0603		
114	1	R25	3k3	RESISTOR, European symbol	R0603_SJ		
115	1	R26	10k	RESISTOR, European symbol	R0603_SJ		
116	1	R27	22R	RESISTOR, European symbol	R0603_SJ		
117	1	R28	10k	RESISTOR, European symbol	R0603		
118	1	R29	220R	RESISTOR, European symbol	R0603		
119	1	R40	47R	RESISTOR, THT Alternative zu R42 u.R43	R0309/10		
120	1	R42	100R	RESISTOR, European symbol	R1206		
121	1	R43	100R	RESISTOR, European symbol	R1206		
122	1	R56	10k	RESISTOR, European symbol	R0603_SJ		
123	1	R103	22R	RESISTOR, European symbol	R0603		
124	1	R104	22R	RESISTOR, European symbol	R0603		
125	1	R106	22R	RESISTOR, European symbol	R0603		
126	1	R107	22R	RESISTOR, European symbol	R0603		
127	1	R108	22R	RESISTOR, European symbol	R0603		
128	1	R109	22R	RESISTOR, European symbol	R0603		
129	1	R110	22R	RESISTOR, European symbol	R0603		
130	1	R111	22R	RESISTOR, European symbol	R0603		
131	1	R112	22R	RESISTOR, European symbol	R0603		
132	1	R113	22R	RESISTOR, European symbol	R0603		
133	1	R114	22R	RESISTOR, European symbol	R0603		
134	1	R115	22R	RESISTOR, European symbol	R0603		

Pos	Menge	Bezeichnung	Wert	Beschreibung	Bauform	Hersteller	Hersteller Nr.
135	1	R116	22R	RESISTOR, European symbol	R0603		
136	1	R117	22R	RESISTOR, European symbol	R0603		
137	1	R118	22R	RESISTOR, European symbol	R0603		
138	1	R119	22R	RESISTOR, European symbol	R0603		
139	1	R130	22R	RESISTOR, European symbol	R0603_SJ		
140	1	RN1	1k	Array Chip Resistor, 10%	1206-CRAM	Bourns	CAT16-102J4
141	1	RN2	1k	Array Chip Resistor, 10%	1206-CRAM	Philips	2350 034 10102
142	1	RN3	1k	Array Chip Resistor, 10%	1206-CRAM		
143	1	RN4	1k	Array Chip Resistor, 10%	1206-CRAM		
144	1	RN5	1k	Array Chip Resistor, 10%	1206-CRAM		
145	1	RN6	1k	Array Chip Resistor, 10%	1206-CRAM		
146	1	RN8	1k	Array Chip Resistor, 10%	1206-CRAM		
147	1	RN9	1k	Array Chip Resistor, 10%	1206-CRAM		
148	1	RN10	1k	Array Chip Resistor, 10%	1206-CRAM		
149	1	S1	SMD or THT	9314 SMD type (or standard THT can be fitted)	9314_SMD	Schurter	9314 SMD type
150	1	SJ	-	SMD solder JUMPER	R0603_SJ		
151	1	SJ5	-	SMD solder JUMPER	SJX		
152	1	SJ6	-	SMD solder JUMPER	SJX		
153	1	SJ31	-	SMD solder JUMPER	R0603_SJ		
154	1	SJ40	-	SMD solder JUMPER	SJ		
155	1	T1	BC850	NPN Transistor	SOT23-BEC		
156	1	T2	BC860	PNP Transistor	SOT23-BEC		
157	1	T12	BC860	PNP Transistor	SOT23-BEC		
158	1	T13	BC860	PNP Transistor	SOT23-BEC		
159	1	X2		Printklemme, Plug, Grid 3,5	RIA183-04	RIACON	
160	1	X3		Printklemme, Plug, Grid 3,5	RIA183-08	RIACON	
161	1	X7		Printklemme, Plug, Grid 3,5	RIA183-08	RIACON	
162	1	X8		Printklemme, Plug, Grid 3,5	RIA183-08	RIACON	
163	1	X20		Printklemme, Plug, Grid 3,5	RIA183-08	RIACON	
164	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
165	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
166	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
167	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
168	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
169	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
170	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
171	1	X100		Printklemme, stacked, Grid 3,5	RIA267-04	RIACON	
172	1	X12		SMD Löt pads	SMD_PAD100		
173	1	X13	PR10	Single Pad	PAD_1.0		
174	1	X14	P-06-SIP-10	HEADER PLUG PINS	SIP-100-06		
175	1	X15	PR10	Single Pad	PAD_1.0		
176	1	X19	PR10	Single Pad	PAD_1.0		
177	1	PCB	PCB	PCB OpenDCC GBM or PCB GBM16T			