

# CAN-GC1e

Ethernet to MERG-CBUS interface

Revised : Mar 19, 2016

Revision : 1.4

Bill Of Materials

Revisor : Peter Giling

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Qty	Reference	Part
1 *	R1	470 Ohm
2 *	R2,R7	120 Ohm
3 *	R3,R4,R5	220 Ohm
1 *	R6	47 KOhm
1 *	R8	100 KOhm
3 *	R9,R19,R20	10 KOhm
1 *	R10	2,32 KOhm 1% metalfilm
2 *	R11,R17	270 Ohm
4 *	R12,R14,R15,R16	49,9 Ohm 1% metalfilm
1 *	R18	1 KOhm 1% metalfilm
1	C1	ELCO RAD 4.700 Minimum 35V rad
2	C2,C4	RAD 100 Minimum 35V rad
1	C3	RAD 1.000 Minimum 25V rad
2	C5,C13	Elco 10 uF Minimum 16V rad
3	C6,C7,C8	K7R-G1206 (usually pre-mounted on pcb)
2	C16,C17	ceramic capacitor 100 nF
1	C9	multi layer capacitor 220 nF
2	C14,C15	ceramic capacitor 15 pF
1	C18	Elco 1000 uF/minimum 16V rad
1 *	D1	1N5822
1 *	D2	1N5818
1	LED1	LED Yellow
1	LED2	LED Green
2	LED3,LED5	LED B-3 GN
1	LED4	LED B-3-RT
1	U1	PIC18F2585 With socket Dil28s
1	U2	ENC28J60 With socket Dil28s
1	U3	MCP2551 With socket Dil08
1	VR1	LM2576t-adj
1	VR2	LM2575T-5
1	VR3	LF33CV
1	JP1, JP2	JUMPER
1	ICSP1	2 x PSS254/3G
1	J1	AKL220/02 + AKL249/02 ( Reichelt )
2	J2,J3	D-SUB BU 09EU
1	J4	Magjack ethernet connector
1	J5	Not used , only for Merg CBUS
1	Pot1	Trimmer 20 Kohm
1	PB1	BUTTON (Reichelt 3301B)
1	L1	Inductor 100 uH ( Reichelt FED 100)
2	L2,L3	Inductor 330uH (Reichelt 09P 330)
1	Res1	Resonator 8 MHz
1	X1	Crystal 25 MHz
1	F1	PFRA 185 1,85 Amp autofuse
1	GR1	KBU6B bridge rectifier 6 Amp
1	Cooling	V PR127/94-M3
3	Clips TO-220	MC 725
4	Supports M4 x 10	
4	Screws M4 x 8	
2	Screws M3 x 8	
1	Ethernet patch cable	

## Important !!!!!

### For Power IC and Regulators:

First mount cooling device with screws, then insert IC and regulators, bending wires so that they are flat to cooling, then fix clamps to hold IC's and after that solder IC's.

\* see resistor package