

Sheet1

Ethernet Locobuffer
GCA101v2
Bill Of Materials

Revised: Aug 19, 2025
Revision: V2.2
Revisor: Peter Giling

5	R1, R9, R10, R11, R17	resistor 10 KOhm 1/8 Watt 1% metalfilm
2	R4, R5	Resistor 4.7 KOhm 1/8 Watt
1	R2	resistor 3.3 KOhm 1/8 Watt
1	R6	resistor 1 KOhm 1/8 Watt
1	R7	resistor 220K 1/8 Watt 1% metalfilm
1	R8	resistor 33 Ohm 1/8 Watt
2	R12, R13	resistor 47 KOhm 1/8 Watt 1% metalfilm
1	R14	resistor 82 Ohm 1/8 Watt 1% metalfilm
1	R15	resistor 22 KOhm 1/8 Watt
1	R16	resistor 270 Ohm 1/8 Watt
2	R18, R19	resistor 150 Ohm 1/8 Watt
4	R20..R23	resistor 51 Ohm 1/8 Watt 1% metalfilm
1	R24	resistor 120 Ohm 1/8 Watt 1% metalfilm
1	R25	resistor 2.2 KOhm 1/8 Watt 1% metalfilm
1	C1	elco 100uF 16V radial
6	C2..C5, C9, C10	capacitor 100 nF 2.5 mm pitch
2	C6 ,C11	capacitor 220 nF 5mm pitch
2	C7,C8	capacitor 15 pF
1	D1	diode 1N5822
1	D2	diode 1N5818
1	LED1	LED 3mm green
1	LED2	LED 3mm red (high luminence)
1	LED3	LED 3mm white (high luminence)
1	LED4	LED 3mm blue (high luminence)
1	T1	BC337/40
1	VR1	R78E33-0,5
1	U1	ATMEGA328 DIP28 with socket
1	U2	ENC28J60 with socket
1	U3	LM311 with socket
1	JP1	2 pin header with jumper
1	JP2	3 PIN Header with jumper
1	J1	AKL012/02
2	J2, J3	D-SUB BU 09EU
1	J4	Magjack ethernet connector
2	J5, J6	MEBP 6-6S
1	L1	inductor 330uH
1	F1	Multifuse 2.5 or 3 Amp
1	F2	Multifuse 0,5 Amp
1	CC1	LM317LZ
1	X1	crystal 25 MHz
4	support M4 + fastener	
1	pcb	