Gate

File: eu-gate, revA

Date: 23JAN16

Note: BOM for gate boards

Part	Pcs	Value	Package	Note	URL
C1-C4, C7, C9-C15	12	100nF	SMD 0603	16V; X7R; ±10%	http://www.tme.eu/cz/details/cl10b104ko8nnnc/kondenzatory-mlcc-smd-0603/samsung/
C5, C6	2	18pF	SMD 0603	50V; C0G; ±1%	http://www.tme.eu/cz/details/cl10c180fb8nnnc/kondenzatory-mlcc-smd-0603/samsung/
C8, C16	2	10uF	SMD A	tantal, 16V, ±10%	http://www.tme.eu/cz/details/t491a106k016at/tantalove-kondenzatory-smd/kemet/
IC1	1	SN75176AD	SO8		http://www.tme.eu/cz/details/sn75176ad/integr-obvody-interface-rs232422485/texas-instruments/
IC1	1	SN75176BD	SO8	substitute	http://www.tme.eu/cz/details/sn75176bd/integr-obvody-interface-rs232422485/texas-instruments/
100-105	6	KK 254, 1x3	THT		http://www.tme.eu/cz/details/ns25-w3p/signalove-konektory-raster-254mm/ninigi/
ISP	1	2x3, 2.54mm	THT		http://www.tme.eu/cz/details/zl202-6g/konektory-hrebinky/connfly/ds1021-2_3sf1-1/
J1, J2	2	RJ12	THT	6p6c	http://www.tme.eu/cz/details/mx-95501-2661/konektory-rj/molex/95501-2661/
J3	1	KK 254, 1x2	THT		http://www.tme.eu/cz/details/mx-22-23-2021/signalove-konektory-raster-254mm/molex/22-23-2021/
J4	1	KK 254, 1x4	THT		http://www.tme.eu/cz/details/mx-47053-1000/signalove-konektory-raster-254mm/molex/47053-1000/
LD1	1	green	SMD 0603	OSG50603C1E	http://www.tme.eu/cz/details/osg50603c1e/diody-led-smd-barevne/optosupply/
Q1	1	16MHz	SMD, HC49USM	±30ppm; 18pF	http://www.tme.eu/cz/details/hc49usm-ff3f16.00/kremikove-rezonatory-smd/ilsi/hc49usm-ff3f18-160000/
R1, R6	2	10kΩ	SMD 0603	0,1W; ±5%	http://www.tme.eu/cz/details/rc0603jr-0710k/rezistory-smd-0603/yageo/rc0603jr-0710kl/
R2	1	1ΜΩ	SMD 0603	0,2W; ±5%	http://www.tme.eu/cz/details/hp03-1m5%25/rezistory-smd-0603/royal-ohm/hp03w5j0105t5e/
R3	1	120Ω	SMD 0603	0,1W; ±5%	http://www.tme.eu/cz/details/rc0603jr-07120r/rezistory-smd-0603/yageo/rc0603jr-07120rl/
R4, R5	2	4.7kΩ	SMD 0603	0,1W; ±5%	http://www.tme.eu/cz/details/crcw06034k70jnea/rezistory-smd-0603/vishay/
R7	1	470kΩ	SMD 0603	0,2W; ±5%	http://www.tme.eu/cz/details/hp03-470r5%25/rezistory-smd-0603/royal-ohm/hp03w5j0471t5e/
SJ1-SJ4	4	-	-	jumper, solder	
U1	1	ATMega88PA	TQFP32		http://www.tme.eu/cz/details/atmega88pa-au/mikroprocesory-atmel-avr-smd/atmel/

Lines with gray background are not mounted on DPS

 File:
 IR, RevA

 Date:
 06.03.16

Note: reflective IR boards

Part	Pcs	Value	Package	Note	URL
C1	1	100nF	SMD 0603	16V; X7R; ±10	http://www.tme.e
J1	1	KK 254, 1x3	THT, 90	Ninigi	http://www.tme.e
R1, R3	2	10kΩ	SMD 0603	0,1W; ±5%	http://www.tme.e
R2, R4	1	220Ω	SMD 0603	0,1W; ±5%	http://www.tme.e
U1	1	LTH-209-01	THT		http://www.tme.e
Q2	1	BC847	SMD		http://www.tme.e

Lines with gray background are not mounted on DPS

Wires

File: Wires for IR boards

Date: 08MAR16

Note: 6x40 cm, 16x30 cm, 26x20 cm

Part	Pcs	Note	URL
NS25-T	300	pin for Ninigi connector	http://www.tme.eu/cz/details/ns25-t/signalove-konektory-raster-254mm/nin
NS25-G3	100	housing for Ninigi, 3 pins	http://www.tme.eu/cz/details/ns25-g3/signalove-konektory-raster-254mm/n
Wire		3 core flat cable	

File: Modbus wire for Gate boards

Date: 08MAR16

Note: 1x20 cm, 2x25 cm, 1x30 cm, 4x35 cm, 1x40 cm, 1x85 cm

Part	Pcs	Note	URL	
RJ12W	20	RJ12, 6p6c	http://www.tme.eu/cz/details/rj12w/konektory-rj/ni	nigi/
Wire		2 or more twisted pairs		