

LoRa_PCl_e_GW-SPI_868M_GNSS-BOM						
Reference	Quantity	Value	Footprint	Description	Manufacturer	Part Number Price[1k]
A2 A1	2	U.FL	LoRa_PCl_e_GW:U.FL-R-SMT_Hirose	U.FL (UMCQ) Connector Receptacle, Male Pin 50Ohm Surface Mount Solder	Hirose	U.FL-R-SMT-1(80) 0.85
C101 C111 C112 C104 C202 C201 C226 C225 C916 C816	10	1uF	LoRa_PCl_e_GW:ccer_402_smd_small	1µF ±20% 10V Ceramic Capacitor X5R 0402 (1005 Metric)	Murata	GRM153R61A105ME95D 0.038
C108 C107 C105 C102 C110 C109 C103 C106 C600 C602 C309 C208 C221 C220 C223 C838 C918 C818	18	100nF	LoRa_PCl_e_GW:ccer_201_smd_small	0.1µF ±10% 16V Ceramic Capacitor X7S 0201 (0603 Metric)	Murata	GRM033C71C104KE14D 0.01
C204 C206 C822	3	4.7uF	LoRa_PCl_e_GW:ccer_603_smd_small	4.7µF ±10% 16V Ceramic Capacitor X5R 0603 (1608 Metric)	Murata	GRM188R61C475KAJ4D 0.089
C213 C224	2	4.7uF	LoRa_PCl_e_GW:ccer_402_smd_small	4.7µF ±20% 6.3V Ceramic Capacitor X5R 0402 (1005 Metric)	Murata	GRM155R60J475ME47D 0.089
C222	1	2.2uF	LoRa_PCl_e_GW:ccer_603_smd_small	2.2µF ±10% 10V Ceramic Capacitor X7R 0603 (1608 Metric)	Murata	GRM188R71A225KE15D 0.039
C300 C207 C203 C212	4	10uF	LoRa_PCl_e_GW:ccer_603_smd_small	10µF ±10% 16V Ceramic Capacitor X5R 0603 (1608 Metric)	Murata	GRM188R61C106KAAAL 0.1
C601 C802	2	47pF	LoRa_PCl_e_GW:ccer_201_smd_small	47pF ±5% 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GRM0335C1H470JA01D 0.0036
C717 C716	2	NC	LoRa_PCl_e_GW:ccer_402_smd_small	0.47µF ±10% 10V Ceramic Capacitor X5R 0402 (1005 Metric)	Murata	GRM155R61A474KE15D 0.024
C801	1	47nF	LoRa_PCl_e_GW:ccer_402_smd_small	0.047µF ±10% 16V Ceramic Capacitor X7R 0402 (1005 Metric)	Murata	GRM155R71C473KA01J 0.012
C805	1	5.6pF	LoRa_PCl_e_GW:ccer_201_smd_small	5.6pF ±0.05pF 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GRM0335C1H5R6WA01D 0.005
C806	1	39pF	LoRa_PCl_e_GW:ccer_201_smd_small	39pF ±1% 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GRM0335C1H390FA01D 0.0057
C807	1	2.2pF	LoRa_PCl_e_GW:ccer_201_smd_small	2.2pF ±0.05pF 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GJM0335C1H2R2WB01D 0.026
C809 R803 C821 C820 C815 C819 C834	7	56pF	LoRa_PCl_e_GW:ccer_201_smd_small	56pF ±1% 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GRM0335C1H560FA01D 0.0057
C823	1	10nF	LoRa_PCl_e_GW:ccer_402_smd_small	10000pF ±10% 10V Ceramic Capacitor X5R 0402 (1005 Metric)	Murata	GRM155R61A103KA01D 0.007
C824	1	1nF	LoRa_PCl_e_GW:ccer_402_smd_small	1000pF ±10% 16V Ceramic Capacitor X7R 0402 (1005 Metric)	Murata	GRM155R71C102KA01D 0.007
C825 C826	2	100pF	LoRa_PCl_e_GW:ccer_402_smd_small	100pF ±1% 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	Murata	GRM1555C1H101FA01D 0.016
C828 C908 C808	3	10pF	LoRa_PCl_e_GW:ccer_201_smd_small	10pF ±1% 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GRM0335C1H100FA01 0.005
C829	1	1.3pF	LoRa_PCl_e_GW:ccer_201_smd_small	1.3pF ±0.05pF 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GJM0335C1H1R3WB01 0.02
C830	1	1.5pF	LoRa_PCl_e_GW:ccer_201_smd_small	1.5pF ±0.05pF 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GJM0335C1H1R3WB01 0.026
C831 C832 C804	3	3.3pF	LoRa_PCl_e_GW:ccer_201_smd_small	3.3pF ±0.05pF 50V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GJM0335C1H3R3WB01D 0.026
C833	1	2.7pF	LoRa_PCl_e_GW:ccer_201_smd_small	2.7pF ±0.25pF 25V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GJM0335C1E2R7CB01J 0.008
C912 C911 C812 C811	4	3.6pF	LoRa_PCl_e_GW:ccer_201_smd_small	3.6pF ±0.05pF 25V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	Murata	GJM0335C1E3R6WB01J 0.022
C917 C817	2	470nF	LoRa_PCl_e_GW:ccer_402_smd_small	0.47µF ±10% 10V Ceramic Capacitor X5R 0402 (1005 Metric)	Murata	GRM155R61A474KE15D 0.024
D302	1	20V	LoRa_PCl_e_GW:SLP1006P2T	20V Clamp 4A (8/20µs) Ipp Tvs Diode Surface Mount SLP1006P2T	Semtech	RCLAMP0531T.TCT 0.39
D600 D801	2	~	LoRa_PCl_e_GW:SLP1006P2T	TVS DIODE 4V 1005	Murata	LXES15AAA1-153 0.046
FB302 FB205 FB208 FB207 FB211 FB212 FB801	7	Ferrite beads	LoRa_PCl_e_GW:rlc_402_smd_small	10 Ohms Ø 100MHz 1 Power Line Ferrite Bead 0402 (1005 Metric) 1A 25mOhm	Murata	BLM15PG100SN1D 0.027
L200	1	2.2uH	LoRa_PCl_e_GW:LQM2HPN2R2MJ0L	2.2µH Shielded Multilayer Inductor 1A 150mOhm Max 1008 (2520 Metric)	Murata	LQM2HPN2R2MJ0L 0.14
L601 L801	2	47nH	LoRa_PCl_e_GW:rlc_402_smd_small	47nH Unshielded Wirewound Inductor 210mA 1.08Ohm Max 0402 (1005 Metric)	Murata	LQW15AN47NJ00D 0.063
L803	1	2.5nH	LoRa_PCl_e_GW:rlc_402_smd_small	2.5nH Unshielded Wirewound Inductor 850mA 50mOhm Max 0402 (1005 Metric)	Murata	LQW15AN4N5C00D 0.066
L804	1	4.7nH	LoRa_PCl_e_GW:rlc_402_smd_small	4.7nH Unshielded Wirewound Inductor 750mA 70mOhm Max 0402 (1005 Metric)	Murata	LQW15AN4N7C00D 0.066
L809	1	6.8nH	LoRa_PCl_e_GW:rlc_402_smd_small	6.8nH Unshielded Wirewound Inductor 1.45A 68mOhm Max 0402 (1005 Metric)	Murata	LQW15AN6N8G80D 0.1
L810	1	3.0nH	LoRa_PCl_e_GW:rlc_402_smd_small	3nH Unshielded Wirewound Inductor 1.35A 63mOhm Max 0402 (1005 Metric)	Murata	LQW15AN3N0C80D 0.09
L811	1	7.5nH	LoRa_PCl_e_GW:rlc_402_smd_small	7.5nH Unshielded Wirewound Inductor 570mA 130mOhm Max 0402 (1005 Metric)	Murata	LQW15AN7N5J00D 0.063
L812	1	1.2nH	LoRa_PCl_e_GW:rlc_402_smd_small	1.2nH Unshielded Thick Film Inductor 390mA 100mOhm Max 0402 (1005 Metric)	Murata	LQP15MN1N2B02 0.07
L814 L813	2	5.6nH	LoRa_PCl_e_GW:rlc_402_smd_small	5.6nH Unshielded Wirewound Inductor 800mA 51mOhm Max 0402 (1005 Metric)	Murata	LQW15AN5N6D10D 0.072
L906 L806	2	12nH	LoRa_PCl_e_GW:rlc_402_smd_small	12nH Unshielded Wirewound Inductor 500mA 140mOhm Max 0402 (1005 Metric)	Murata	LQW15AN12NH00D 0.066
L907 L807	2	15uH	LoRa_PCl_e_GW:rlc_805_smd_small	15µH Shielded Multilayer Inductor 250mA 950mOhm 0805 (2012 Metric)	TDK	MLZ2012M150WT25 0.088
LED1	1	RED	LoRa_PCl_e_GW:CD1005-0402-RED	Red 630nm LED Indication - Discrete 1.95V 0402 (1005 Metric)	Kingbright	APHHS1005SURCK 0.12
LED2 LED4	2	GREEN	LoRa_PCl_e_GW:CD1005-0402	Green 570nm LED Indication - Discrete 1.9V 0402 (1005 Metric)	Kingbright	APHHS1005LCGCK 0.11
LED3	1	YELLOW	LoRa_PCl_e_GW:CD1005-0402-YELLOW	Yellow 590nm LED Indication - Discrete 1.85V 0402 (1005 Metric)	Kingbright	APHHS1005LSYCK/US-PF 0.16
R102 R301 R308 R309 R302 R317 R316 R318 R319 R330 R332 R334 R331 R333 R300 R805 R809 R807	18	100R	LoRa_PCl_e_GW:rlc_201_smd_small	100 Ohms ±1% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW0201100R 0.037
R103 R101 R107 R201 R205	5	10k	LoRa_PCl_e_GW:rlc_201_smd_small	10 kOhms ±1% 0.05W, 1/20W Chip Resistor 0201 Thick Film	Vishay Dale	CRCW020110K0 0.037
R104 R105	2	680R	LoRa_PCl_e_GW:rlc_201_smd_small	680 Ohms ±1% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW0201680R 0.011
R106	1	820R	LoRa_PCl_e_GW:rlc_201_smd_small	820 Ohms ±5% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW0201820R 0.012
R113 R122 R108 R114 R124 R110 R115 R112 R123 R121 R120 R109 R125 R111 R602 R815	16	0R	LoRa_PCl_e_GW:rlc_201_smd_small	0 Ohms Jumper 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW02010000Z0ED 0.006
R116 R117 R601 R206 R203	5	4.7k	LoRa_PCl_e_GW:rlc_201_smd_small	4.7 kOhms ±1% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW0201470FJNED 0.011
R208	1	1k	LoRa_PCl_e_GW:rlc_201_smd_small	1 kOhms ±5% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW02011K00JNED 0.007
R600	1	10R	LoRa_PCl_e_GW:rlc_201_smd_small	10 Ohms ±1% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW020110R0FJNED 0.011
R901 R801	2	220R	LoRa_PCl_e_GW:rlc_201_smd_small	220 Ohms ±5% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	Vishay Dale	CRCW0201220RJNED 0.007
R913 R813	2	0R	LoRa_PCl_e_GW:rlc_402_smd_small	0 Ohms Jumper 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	Vishay Dale	CRCW04020000Z2STD 0.01
RF1	1	Shield Frame	LoRa_PCl_e_GW:SMS-458F_Shield	RF Shield Frame 1.070 (27.18mm) X 1.540" (39.12mm) Surface Mount*	Leader Tech	SMS-458F 1.82
RF2	1	Shield Cover	LoRa_PCl_e_GW:SMS-458C_Shield_cover	RF Shield Cover 1.094 (27.79mm) X 1.564" (39.73mm) Non-Vented Surface Mount*	Leader Tech	SMS-458C 0.32
U100	1	SX1303	LoRa_PCl_e_GW:vqth68_7x7mm	Digital Baseband Chip for LoRaWAN network gateways	Semtech Corporation	SX1303MLTRT 20
U201 U203 U206	3	3V3	LoRa_PCl_e_GW:UDFN_1x1mm	Linear Voltage Regulator IC Positive Fixed 1 Output 150mA 4-UDFN (1.0x1.0)	ON Semiconductor	NCP103AMX330TCG 0.097
U202	1	TPS62242DRV	LoRa_PCl_e_GW:DRV0006A_V	Buck Switching Regulator IC Positive Fixed 1.2V 1 Output 300mA 6-WDFN Exposed Pad	Texas Instruments	TPS62242DRV 0.53
U204	1	STTS751	LoRa_PCl_e_GW:UDFN-6L_2X2mm	Temperature Sensor Digital, Local -40°C ~ 125°C 11 b 6-UDFN (2x2)	STMicroelectronics	STTS751-GDP3F 0.55
U205	1	NCP176BMX330TCG	LoRa_PCl_e_GW:XDFN6_1.2X1.2mm	Linear Voltage Regulator IC Positive Fixed 1 Output 500mA 6-XDFN (1.2x1.2)	ON Semiconductor	NCP176AMX330TCG 0.135
U600	1	ZOE-M8Q	LoRa_PCl_e_GW:LGA43R65P9X9_700X700X116	GNSS RF Receiver Galileo, GLONASS, GPS 1.575GHz -167dBm	U-Blox	EVA-M8M-0 15.6
U802	1	SKY66423-11	LoRa_PCl_e_GW:SKY66420_16P_3x3mm	RF Front End 860MHz ~ 930MHz General Purpose 16-MCM (3x3)	Skyworks	SKY66423-11 1.4
U805 U801 U803	3	SAW Filter	LoRa_PCl_e_GW:QCS5P_1.4x1.1mm	866.5MHz Frequency Remote Control RF SAW Filter (Sound Acoustic Wave) 2.3dB 7MHz Bandwidth 5-SMD, No Lead	Qualcomm & TDK	B39871B4377P810 0.92
U900 U800	2	SX1250	LoRa_PCl_e_GW:vqth24_4x4mm	RF TxRx Only LoRaWAN 150MHz ~ 960MHz	Semtech	SX1250MLTRT 2.9
Y800	1	TCXO	LoRa_PCl_e_GW:TCXO_2x1_6mm	32MHz TCXO Oscillator 1.8V 4-SMD, No Lead	NDK	NT2016SA 32MHz END4263A 1

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