



Comment	Description	Designator	Footprint	LibRef	Quantity
DC-108		12VDC	DC-IN	P202A	1
TD-0341 (RESET/Black)	SE PUSHBUTTON	B1	PB	PUSHBUTTON	1
WKUP	SE PUSHBUTTON	B2	PB	PUSHBUTTON	1
PN CR1220	Multicell Battery	BT1	PCBComponent_1	Battery3.3_V	1
0.1uF	Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R, Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R, Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R, Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R, Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R, Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R, Capacitor, Capacitor	C1, C2, C3, C4, C7, C27, C	0603_C	GRM188R71A225KE15, GRM188R71A225KE15, GRM188R71A225KE15, GRM188R71A225KE15, GRM188R71A225KE15, GRM188R71A225KE15	7
10uF	Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R	C5	0603_C	GRM188R71A225KE15	1
20uF	Capacitor	C20, C23	0603_C	CAP	2
10uF	Capacitor	C21, C22	0603_C	CAP	2
10uF/16V	Tu Hoa	C26, C28	AVX-CAPC3528_V	AVX-CAP-P-2	2
2.2uF	Capacitor	C33, C50	CAPC328X100N	Cap	2
100nf	Capacitor	C47, C51, C46, C57, C48, C49, C53, C54, C56, C57, C60, C61, C65, C66, C67, C68, C69, C91, C143, C14, C145, C146, C149, C151, C152	0603_C	Cap	25
4.7uF	Polarized Capacitor (Radial)	C58	AVX-CAPC3528_V	Cap Pol1	1
1uF	Polarized Capacitor (Radial)	C74, C75	AVX-CAPC3528_V	Cap Pol1	2
3.3uF	Murata General Purpose Ceramic Cap 0603 2.2uF 10% X7R	C92, C93, C94, C95	0603_C	GRM188R71A225KE15	4
100uF/16V	Tu hoa	Cin	CAPAE660X540N	AVX-CAP-P-2	1
Mini USB B	FCI Mini USB B Receptacle Right Angle	CONNUSB	USB MINI B RECEPTACLE	10033526-N3121LF	1
1000uF/16V	Tu hoa	Cout	CAPAE1030X1020N	AVX-CAP-P-2	1
MBR5340T3	Diode 1A	D1	DO-214AB	D1A	1
PH195C-405-0.55H		PH195C-405-0.55H	FTC/SMO 5-2H40A	PH195C-405-0.55H	1
IR	Header, 3-Pin	IR	HDR1X3	Header 3	1
Nguon Ngaoi	Header, 2-Pin	JP1	HDR1X2	Header 2	1
100uH	Inductor	L1	IND_BOURN5_PM1275H	L1	1
BEAD	Inductor	L3	INDC2012X105N	Inductor	1
Header 17X2	Header, 17-Pin, Dual row	LCD, TFT	HDR2X17	17X2	1
Red	Typical RED, GREEN, YELLOW, AMBER GaAs LED	LD3, LD9	0805_LED	LED2	2
Blue	Typical RED, GREEN, YELLOW, AMBER GaAs LED	LD4, LD10	0805_LED	LED2	2
CAB 4	Header, 4-Pin	P1	FFC/SM1.0-2H4	Header 4	1
Header 9X2	Header, 9-Pin, Dual row	P10	HDR2X9	9X2	1
10K	Yageo RES 10R 5% 1/10W 0603, Yageo RES 10R 5% 1/10W 0603, Yageo RES 10R 5% 1/10W 0603, Yageo RES 10R 5% 1/10W 0603, Resistor, Resistor	R1, RA, R9, R11, R71, R95	0603_R	RC0603JR0710RL, RC0603JR0710RL, RC0603JR0710RL, RC0603JR0710RL, RC0603JR0710RL, RC0603JR0710RL, Res1, res1	6
0R, not fit	Yageo RES 10R 5% 1/10W 0603	R3	0603_R	RC0603JR0710RL	1
10K(not fit)	Yageo RES 10R 5% 1/10W 0603	R8, R10	0603_R	RC0603JR0710RL	2
470	Resistor	R24	0603_R	res1	1
1K	Resistor	R25	0603_R	res1	1
0 not fit	Resistor	R26, R27	0603_R	Res1	2
47K	Resistor	R28, R29, R30, R31, R32, R33	0603_R	Res1	6
0R	Resistor	R34	0603_R	res1	1
0R not fit	Resistor	R35	0603_R	res1	1
R0.4W	Resistor	R41	0603_R	Res 1/4 W	1
0 ohm not fit	Resistor	R72	0603_R	Res1	1
0	Resistor	R73, R87	0603_R	Res1	2
510	Resistor	R90	0603_R	res1	1
510 not fit	Resistor	R91	0603_R	res1	1
10K not fit	Resistor	R94	0603_R	res1	1
330	Resistor	R139	0603_R	Res1	1
680	Resistor	R140, R141	0603_R	Res1	2
220K	Resistor	R153	0603_R	res1	1
SW DIP-2	DIP Switch, 2 Position, SPST	S1	SW, OMRON A65-2102-H	SW DIP-2	1
SD_Card_TF	SD	SD CARD	SD_Card_TF	SD_Card_TF	1
MT48LC10M16AZP-75 IT	256Mb Synchronous High-Speed CMOS DRAM, 16 x 168H x 4 Banks, 54-Pin TSOP Pb-free, Industrial	SDRAM 256Mbit	TSOP2-54_N	M16AZP-75 IT	1
Header 6H	Header, 6-Pin, Right Angle	SWD	HDR1X6	Header 6H	1
MC-ARM-STM32F4X9-SQ176		U1	STM-LQFP176_N	MC-ARM-STM32F4X9-SQ176	1
LM2576T-5.0	SIMPLE SWITCHER: 3A Step-Down Voltage Regulator	U2	TO263-S	LM2576T-5.0	1
LM1117-3.3V	800mA Low-Dropout Linear Regulator	U3	SOT223-4N	LM1117	1
TSC2040PW	4-Wire 1000Hz SCSNBI CMOS/BISS with Low-Voltage Interface, 16-Pin TSSOP, Pb-Free	U5	PW016	TSC2040PW	1
Header 2	Header, 2-Pin	UART7	HDR1X2	Header 2	1
1	0ic Vlt	VIT1, VIT2, VIT3, VIT4	VIT	VIT	4
25MHz(with socket)	Crystal	X1	HC49/US-SMD	CRYSTAL	1
32.768KHz	Crystal Oscillator	X2	Cylindrical crystal	XTAL/32K	1