

Material code	Material name	Specifications Model	31 BOM Material Properties	Unit	Yield (%)	
FMAT. ENP. 31002	31	31		Taiwan	100	
Level	Subkey material code	Material name	Specifications Model	Material Properties	Unit	amount
.1	FMAT. ELE. POW. 122001	Power supply	12V/2A	Outsourcing	PCS	1
.1	FMAT. ELE. TER. 150001	Wire	1.5m	Outsourcing	PCS	1
.1	FMAT. ENP. BAM. 831002	831Bare	831Bare	Outsourcing	Taiwan	1
.2	FMAT. ELE. ANT. 240301	Antenna	15.7CM, 2.4G 3DB	Outsourcing	PCS	1
.2	FMAT. ELE. ANT. 241701	Antenna adapter cable	SMA TO IPEX	Outsourcing	PCS	1
.2	FMAT. ELE. LEM. 203001	IR CUT	YP4AHC2030-60 IR CUT	Outsourcing	PCS	1
.2	FMAT. ELE. LEN. 600002	Shot	6mm	Outsourcing	PCS	1
.2	FMAT. ELE. OTH. H00001	Heat sink	20mm*20mm*5mm	Outsourcing	PCS	1
.2	FMAT. ELE. TER. 035001	Wire	1571/28#/50mm/3Pin 4P/1.25-3P/1.25+2P/1.25	Outsourcing	PCS	1
.2	FMAT. ELE. TER. RJ4504	Wire	5.5mmDC	Outsourcing	PCS	1
.2	FMAT. MET. COC. 200702	Pillars	M2×7+3	Outsourcing	PCS	4
.2	FMAT. MET. COC. 201002	Pillars	M2×10+4	Outsourcing	PCS	4
.2	FMAT. MET. COC. 201601	Pillars	M2×16+4	Outsourcing	PCS	4
.2	FMAT. MET. SCR. 170401	Screw	PA1.7×4	Outsourcing	PCS	1
.2	FMAT. MET. SCR. 200401	Screw	PM2×4	Outsourcing	PCS	6
.2	FMAT. MET. SCR. 251202	Screw	Stainless Steel White	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831001	Shell	831 Front Cover	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831101	Shell	831 cover	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831201	Shell	831 plastic decorative sheet	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831301	Shell	831 plastic ring	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831401	Shell	831 main waterproof ring	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831501	Shell	831 5X6X9	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831601	Shell	831 Stand base	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831701	Shell	831 yoke nuts	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831801	Shell	831 bracket sets bar	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831901	Shell	831 jack stand	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831A01	Shell	831 bracket screw	Outsourcing	PCS	1
.2	FMAT. PLA. SHL. 831B01	Shell	831 hole nut	Outsourcing	PCS	1
.2	FMAT. SEP. SMP. 38D001	PCBA	FI-38X38 SD+WIFI V1.3 PCBA	Outsourcing	PCS	1
.3	FMAT. ELE. CAP. 103001	Chip capacitors	0402 10nF/50V ±10%	Outsourcing	PCS	1
.3	FMAT. ELE. CAP. 104001	Chip capacitors	0402 100nF/16V +80%-20%	Outsourcing	PCS	4
.3	FMAT. ELE. CAP. 105001	Chip capacitors	0402 1uF/16V ±10%	Outsourcing	PCS	3
.3	FMAT. ELE. CAP. 106001	Chip capacitors	0603 10uF/10V ±10%	Outsourcing	PCS	2
.3	FMAT. ELE. CHP. 181001	IC	TLP181	Outsourcing	PCS	1
.3	FMAT. ELE. IND. 300001	Beads	0603 30ohm-0.05ohm-0.4A	Outsourcing	PCS	2
.3	FMAT. ELE. PCB. 38D001	PCB	FI-38X38 SD+WIFI V1.3 PCB	Outsourcing	PCS	1
.3	FMAT. ELE. RES. 000002	Chip Resistor	0402 0Ω ±5%	Outsourcing	PCS	1
.3	FMAT. ELE. RES. 102002	Chip Resistor	0402 1kΩ ±5%	Outsourcing	PCS	2
.3	FMAT. ELE. RES. 103003	Chip Resistor	0402 10kΩ ±5%	Outsourcing	PCS	11
.3	FMAT. ELE. RES. 104003	Chip Resistor	0402 100kΩ ±5%	Outsourcing	PCS	1
.3	FMAT. ELE. RES. 222002	Chip Resistor	0402 2.2kΩ ±5%	Outsourcing	PCS	1
.3	FMAT. ELE. RES. 472001	Chip Resistor	0402 4.7kΩ ±5%	Outsourcing	PCS	1
.3	FMAT. ELE. RES. 473003	Chip Resistor	0402 47kΩ ±5%	Outsourcing	PCS	1
.3	FMAT. ELE. SMP. 427501	Wireless Modules	PW-MN427 4PIN 2.0	Outsourcing	PCS	1
.3	FMAT. ELE. SOC. 041201	Outlet	Con-4pin-1.25mm-SMD	Outsourcing	PCS	2
.3	FMAT. ELE. SOC. 101002	Outlet	CON-2*10PIN-1.0MM-SMD 180	Outsourcing	PCS	1
.3	FMAT. ELE. SOC. TF0001	TF deck	T-FLASH	Outsourcing	PCS	1
.3	FMAT. ELE. TRA. 341501	MOS tube	A03415 SOT23	Outsourcing	PCS	1
.3	FMAT. ELE. TRA. 390402	Transistor	MMBT3904 SOT23	Outsourcing	PCS	1
.3	FMAT. PKM. STI. PASS02	Stickers	QC PASS	Outsourcing	PCS	1
.3	FMAT. PLA. SPP. 051201	Miandian	5*12mm 2.5mm	Outsourcing	PCS	1

..2	FMAT.SEP.SMP.38M001	PCBA	FI-38X38_GM8126BGA+OV9712 V1.3 PCB	Outsourcing	PCS	1
...3	FMAT.ELE.CAP.02F002	Chip capacitors	KORCHIP DMS 0.22F/3.3V 6.8*1.4mm	Outsourcing	PCS	1
...3	FMAT.ELE.CAP.102002	Chip capacitors	1206 1nF/2kV $\pm 10\%$	Outsourcing	PCS	1
...3	FMAT.ELE.CAP.103001	Chip capacitors	0402 10nF/50V $\pm 10\%$	Outsourcing	PCS	10
...3	FMAT.ELE.CAP.104001	Chip capacitors	0402 100nF/16V +80%-20%	Outsourcing	PCS	42
...3	FMAT.ELE.CAP.105001	Chip capacitors	0402 1uF/16V $\pm 10\%$	Outsourcing	PCS	13
...3	FMAT.ELE.CAP.106001	Chip capacitors	0603 10uF/10V $\pm 10\%$	Outsourcing	PCS	6
...3	FMAT.ELE.CAP.150001	Chip capacitors	0402 15pF/50V $\pm 5\%$	Outsourcing	PCS	2
...3	FMAT.ELE.CAP.200001	Chip capacitors	0402 20pF/50V $\pm 5\%$	Outsourcing	PCS	1
...3	FMAT.ELE.CAP.220001	Chip capacitors	0402 22pF/50V $\pm 5\%$	Outsourcing	PCS	6
...3	FMAT.ELE.CAP.224004	Chip capacitors	0402 220nF/16V $\pm 10\%$	Outsourcing	PCS	1
...3	FMAT.ELE.CAP.226001	Chip capacitors	1206 22uF/16V +80%-20%	Outsourcing	PCS	4
...3	FMAT.ELE.CAP.226003	Chip capacitors	22uF/10V A $\pm 20\%$	Outsourcing	PCS	1
...3	FMAT.ELE.CAP.475001	Chip capacitors	0603 4.7uF/16V +80%-20%	Outsourcing	PCS	5
...3	FMAT.ELE.CHP.128303	IC	MX25L12835FM2I-10G SOP-8L	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.147001	IC	MP1470GJ SOT23-6	Outsourcing	PCS	2
...3	FMAT.ELE.CHP.151101	IC	AP1511B SOT23-6	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.506201	IC	XM5062 SOT23-5	Outsourcing	PCS	2
...3	FMAT.ELE.CHP.812602	IC	GM8126_TFBGA256_27 BGA256 065 12X12	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.971201	IC	OV9712	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.AT8801	IC	AT88SC0104C SOP-8	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.HX1G01	IC	HXB18T1G160AF-25D	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.TR1501	IC	LC1206CB3TR15 SOT23	Outsourcing	PCS	1
...3	FMAT.ELE.CHP.TR3301	IC	LC1206CB3TR33 SOT23	Outsourcing	PCS	1
...3	FMAT.ELE.CRY.300002	Crystal	30MHz, 3225-4pin,SMD	Outsourcing	PCS	1
...3	FMAT.ELE.CRY.327601	Crystal	MC-146 32.768K 15PF 10PPM	Outsourcing	PCS	1
...3	FMAT.ELE.DIO.D10301	Diode	SD103AWS SOD-323	Outsourcing	PCS	1
...3	FMAT.ELE.DIO.RB5501	Diode	RB551V-30 SOD-323	Outsourcing	PCS	1
...3	FMAT.ELE.IND.300001	Inductance	0603 30ohm-0.05ohm-0.4A	Outsourcing	PCS	4
...3	FMAT.ELE.IND.407001	Inductance	3D16-4.7uH $\pm 20\%$ (4MM*4MM*1.8MM)	Outsourcing	PCS	3
...3	FMAT.ELE.IND.407002	Inductance	4D28-4.7uH $\pm 20\%$ (4.8MM*4.8MM*2.8MM)	Outsourcing	PCS	1
...3	FMAT.ELE.OTH.110201	Network Transformers	TRC1102NLE SOP-16	Outsourcing	PCS	1
...3	FMAT.ELE.PCB.38M001	PCB	FI-38X38_GM8126BGA+OV9712 V1.3 PCB	Outsourcing	PCS	1
...3	FMAT.ELE.RES.101002	Chip Resistor	0402 100 Ω $\pm 5\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.103003	Chip Resistor	0402 10k Ω $\pm 5\%$	Outsourcing	PCS	8
...3	FMAT.ELE.RES.103004	Chip Resistor	0402 10k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.104003	Chip Resistor	0402 100k Ω $\pm 5\%$	Outsourcing	PCS	9
...3	FMAT.ELE.RES.104004	Chip Resistor	0402 100k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.112002	Chip Resistor	0402 1.1k Ω $\pm 1\%$	Outsourcing	PCS	4
...3	FMAT.ELE.RES.123002	Chip Resistor	0402 12.1k Ω $\pm 1\%$	Outsourcing	PCS	3
...3	FMAT.ELE.RES.204003	Chip Resistor	0402 200k Ω $\pm 5\%$	Outsourcing	PCS	3
...3	FMAT.ELE.RES.204004	Chip Resistor	0402 200k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.220002	Chip Resistor	0402 22 Ω $\pm 5\%$	Outsourcing	PCS	5
...3	FMAT.ELE.RES.304001	Chip Resistor	0402 300k Ω $\pm 5\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.363001	Chip Resistor	0402 36k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.393002	Chip Resistor	0402 39k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.454002	Chip Resistor	0402 453k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.472001	Chip Resistor	0402 4.7k Ω $\pm 5\%$	Outsourcing	PCS	7
...3	FMAT.ELE.RES.490002	Chip Resistor	0402 49.9 Ω $\pm 1\%$	Outsourcing	PCS	4
...3	FMAT.ELE.RES.511002	Chip Resistor	0402 510 Ω $\pm 5\%$	Outsourcing	PCS	2
...3	FMAT.ELE.RES.513002	Chip Resistor	0402 51k Ω $\pm 5\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.514002	Chip Resistor	0402 510k Ω $\pm 5\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.563002	Chip Resistor	0402 56k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.750003	Chip Resistor	0402 75 Ω $\pm 5\%$	Outsourcing	PCS	2
...3	FMAT.ELE.RES.752002	Chip Resistor	0402 7.5k Ω $\pm 1\%$	Outsourcing	PCS	1
...3	FMAT.ELE.RES.753001	Chip Resistor	0402 75 Ω $\pm 5\%$	Outsourcing	PCS	1

...3	FMAT.ELE.SOC.021202	Outlet	Con-2Pin-1.25mm-SMD	Outsourcing	PCS	2
...3	FMAT.ELE.SOC.031202	Outlet	Con-3pin-1.25mm-SMD	Outsourcing	PCS	1
...3	FMAT.ELE.SOC.041202	Outlet	Con-4pin-1.25mm-SMD	Outsourcing	PCS	2
...3	FMAT.ELE.SOC.081201	Outlet	Con-8pin-1.25mm-SMD	Outsourcing	PCS	1
...3	FMAT.ELE.SOC.101001	Outlet	CON-2*10PIN-1.0MM-SMD 180	Outsourcing	PCS	1
...3	FMAT.ELE.TRA.390402	Transistor	MMBT3904 SOT23	Outsourcing	PCS	1
...3	FMAT.ELE.TRA.390601	Transistor	2N3906 SOT23	Outsourcing	PCS	2
...3	FMAT.ELE.TRA.847001	Transistor	BC847A SOT23	Outsourcing	PCS	1
...3	FMAT.OTH.OTH.000001	Burn Program	ipc_flash v1.7.1.1503091547. bin.ov9712(FI-32X).fujikam	Outsourcing	PCS	1
..2	FMAT.SEP.SMP.LED003	PCBA	FI-LED3-18 V1.1 PCBA	Outsourcing	PCS	1
...3	FMAT.ELE.LED.352801	LED	3528IRLED 14MIL SE03-LP3528- 1430 30	Outsourcing	PCS	6
...3	FMAT.ELE.LED.352802	LED	3528IRLED 14MIL SE03- LP3528-1460 60	Outsourcing	PCS	12
...3	FMAT.ELE.LED.560602	SENSOR	XYC-PTFW560GC-A6 7.0uA-8.5uA	Outsourcing	PCS	1
...3	FMAT.ELE.PCB.LED003	PCB	FI-LED3-18 V1.1	Outsourcing	PCS	1
...3	FMAT.ELE.RES.103003	Chip Resistor	0402 10k Ω $\pm$ 5%	Outsourcing	PCS	1
...3	FMAT.ELE.RES.104003	Chip Resistor	0402 100k Ω $\pm$ 5%	Outsourcing	PCS	1
...3	FMAT.ELE.RES.180001	Chip Resistor	1206 18 Ω $\pm$ 5%	Outsourcing	PCS	3
...3	FMAT.ELE.SOC.022001	Outlet	Con-2Pin-2.0mm-DIP 180	Outsourcing	PCS	1
...3	FMAT.ELE.SOC.041202	Outlet	Con-4pin-1.25mm-SMD	Outsourcing	PCS	1
...3	FMAT.ELE.TRA.341501	MOS tube	A03415 SOT23	Outsourcing	PCS	1
...3	FMAT.ELE.TRA.390601	Transistor	2N3906 SOT23	Outsourcing	PCS	1
.1	FMAT.MET.SCR.352501	Screw	KA3.5MM X 25MM	Outsourcing	PCS	3
.1	FMAT.PKM.BAG.624001	Plastic bags	62mm X 40mm	Outsourcing	PCS	1
.1	FMAT.PKM.BOX.831002	Folding	831 box neutral	Outsourcing	PCS	1
.1	FMAT.PKM.INS.831002	Instructions	Instructions neutral English	Outsourcing	PCS	1
.1	FMAT.PKM.OTH.000001	Swollen rubber stopper	6.6MM, 26MM	Outsourcing	PCS	3
.1	FMAT.PKM.OTH.000004	Norse	100mm	Outsourcing	PCS	1
.1	FMAT.PKM.PAP.BXK002	Warranty Card	Chinese warranty card	Outsourcing	PCS	1
.1	FMAT.PKM.STI.831002	Label	831 label neutral	Outsourcing	PCS	1
.1	FMAT.PLA.SPP.831001	Lined	831 EPE liner	Outsourcing	PCS	1