Source Data	f Mater	IAIS B106AA.PrjPcb	Bill of Materials for Project [B106		,
Project: /ariant:		B106AA.PrjPcb None		• •	
reation Date:	11.07.2020 11-Jul-20	23:31 11:31:20 PM			
ootprint	Comment		Designator	Description	Quantity
APACITOR 0402	Multilayer Ceramic Capacitor	Capacitor - 100nF [0402- 6V3], Capacitor -	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26.	Capacitor - 100nF [0402-6V3] (Ceramic), Capacitor - 33pF [0402] (Ceramic), Capacitor - 1uF [0402] (Ceramic), Capacitor - 1nF [0402] (Ceramic)	12
		6V3], Capacitor. 339F [0402- 6V3], Capacitor. 1uF [0402-6V3), Capacitor - 1nF [0402-6V3)	Designator C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C11, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C32, C32, C22, C32, C32, C32, C32	Capacitor - 1nF [8402] (Caramic)	
APACITOR 0402	Multilayer Ceramic Capacitors	Capacitor - 13pF [0402-50V), Capacitor - 4-7uF [0402- 6V3), Capacitor - 470nF [0402- 6V3], Capacitor - 3300pF [0402- 10V)	C35, C36, C40, C41, C45, C55, C82, C68, C100, C122, C136, C137	Capacitor - 13pF (0402) (Ceramic), Capacitor - 47.6F (0402) (Ceramic), Capacitor - 4706 (0402) (Ceramic), Capacitor - 3000pF (0402) (Ceramic)	1.
APACITOR CAN-B6	Aluminium Organic Polymer	Capacitor - 39uF [Can-16V]	C86, C87	Capacitor - 39uF 16V [Can] (Electrolytic)	
APACITOR 0603 - ANTALUM	Capacitors Tantalum Capacitor	Capacitor - 10uF [0603-6V3] (Tantalium), Capacitor - 47u [0603-6V3] (Tantalium)	C99, C105, C113, C114	Capacitor - 10uF [0603] (Tantalium), Capacitor - 47uF [0603] (Tantalium)	
SD_0402	ESD Suppressors	Diode - ESD Protection	D1, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19	TVS Diode (Bi-directional)	1
ED_0402	SMD LED (Blue)	Diode - LED (0402-Blue)	D2, D3, D4, D5, D6, D7, D8	Standard LEDs - SMD PICOLEDTM;BLUE LED; 25M @ 5MA	
IDUCATOR 0603	Ferrite Bead	Ferrite Bead - 2A [0603]	FB1, FB2	Ferrite Beads 0603 100ohms 2000mA Auto Infotainment	
onnector_T nic 2P - H	Solar Power Socket	Connector - Mini Tunic 2P (1.25)	J1	Mini Tunic Connector with 2P	
onnector - D Module	Memory Card Connectors	Connector - SD Slot	J2	Memory Card Connectors TFR READER (HINGE TYPE)	
onnector - IM Tray	SIM Holder Tray	Connector - Sim Holder	J3	Memory Card Connectors ASSY 1.90 SIM CARD R IM CARD READER CONN.	
onnector_T nic 6P - H	6P Tunic Connector	Connector - Mini Tunic 6P (1.25)	J4	Mini Tunic Connector with 6P	
onnector_T nic 6P - H	T/H Sensor Socket	Connector - Mini Tunic 6P (1.25)	J5	Mini Tunic Connector with 6P	
onnector_T nic 4P - H	4P SMD Tunic Connector	Connector - Mini Tunic 4P (1.25)	J6	Mini Tunic Connector with 4P	
onnector_T iic 6P - H	ST Sensor Socket	Connector - Mini Tunic 6P (1.25)	J7	Mini Tunic Connector with 6P	
onnector_T iic 2P - H	External Battery Socket	Connector - Mini Tunic 2P (1.25)	J8	Mini Tunic Connector with 2P	
ATTERY H	Battery Clip	Connector -	J9, J10	Cylindrical Battery Contacts, Clips, Holders & Springs 16MM - 19MM SM BATTERY CLIP	
loSilk	Ratton Clin	Battery Clip Holder + Battery Connector -	J11		
LDER - R2032	Holder and Battery Fixed Inductor	Battery Holder (CR2032)	L1	Cylindrical Battery Contacts, Clips, Holders & Springs 16MM - 19MM SM BATTERY CLIP Fixed Inductors 0.47uH 20% 11.2A	
.4015 DUCTOR_0	Fixed Inductor	nH [SMD] Inductor - 1nH	L2, L3	8.36mOhms AEC-Q200 Fixed Inductor	
12	Fixed Inductor	[0402] Inductor - 1mH [1007]	L4, L5	Fixed Inductor	
	Bipolar NPN Transistors	Transistor - BC847	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10	Bipolar Transistors - BJT BC847AQA/ DFN1010D-3/REEL 7" Q2	1
ESISTOR_0	Thick Film Resistor	Resistor - 10K, Resistor - 47K, Resistor - 330R, Resistor - 230R, Resistor - 0R, Resistor - 10K, Resistor - 10K, Resistor - 91K, Resistor - 264K, Resistor - 24K7	R1, R2, R3, R6, R5, R6, R7, R8, R0, R10, R11, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R26, R26, R27, R26, R26, R26, R21, R22, R23, R24, R25, R26, R26, R26, R26, R26, R26, R26, R26	Thick Film Resistors - SMD 1/16 W 10 Kohms 1%, Thick Film Resistors - SMD 1/16 W 47 Kohms 1%, Thick Film Resistors - SMD 1/16 W 30 Kohms 1%, Thick Film Resistors - SMD 1/16 W 30 Chms, Thick Film Resistors - SMD 1/16 W 10 Chms, Thick Film Resistors - SMD 1/16 W 1.0 Kohms 1%, Thick Film Resistors - SMD 1/16 W 1.0 Kohms 1%, Thick Film Resistors - SMD 1/16 W 10 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 10 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 27 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 W 2.7 Kohms 1/16 Kind Film Resistors - SMD 1/16 Kind	9
ESISTOR_ ARSXP	Current Sense Resistor	Resistor - 0R01 (Current Sense)	R73	Current Sense Resistors - SMD 10 W 0.01 ohms 1%	
onnector_IP	Antenna	Connector -	RF1	MHF Antenna Socket	
	Sense Socket Capacitive	Connector - MHF IC -	RF2, RF3	Sense Plate Connection Socket Capacitive Sensor	
OT-23-6	Sensor Power Switch	FDC2112QDNT RQ1 IC - TPS22917DBVR	U2, U4	Power Switch MosFet	
OT-23-6	Nanopower Timer IC	IC - TPL5111	U3, U9	Timers & Support Products Ultra Low Power System Timer (35 nA) for Power Gating in duty cycled applications.	
PL3115A2	Board Mount Pressure Sensors	IC - MPL3115A2R1	U5	Board Mount Pressure Sensors I 2 C VERSION	
V-3028-C7 QFN16	Voltage Level	IC - RV-3028-C7	U6 U7	Real Time Clock 32.768kHz I2C Time Acc. 1ppm Translation - Voltage Levels Low Power	
дFN16 FN20	Voltage Level Shifter Battery Charger	IC - SN74AVCH4T24 5 IC - MCP73871	U8	Dual Channel Battery Management USB/AC Battery	
E910 2G SM Modem	GE910 2G GSM Module	IC - Telit GE910QUAD	U10	Charger Telit GE910 GPRS/UMTS Module	
FF2 QFP32	MFF2 SIM Chip 8-bit MicroController	IC - MFF2 IC - ATMEGA328P	U11 U12, U13	SIM Chip MFF2 8-bit Microcontrollers - MCU 32KB In- system Flash 20MHz 1.8V-5.5V	
SSOP-16	SPI Switch IC	IC - SN3257QPWR Q1	U14	System Flash 20MHz 1.8V-5.5V Analogue Switch ICs 2:1 (SPDT), 4- channel switch with 1.8-V logic 16-TSSOP - 40 to 125	
SON-10	Buck-Boost Converter	IC - TPS63802DLAT	U15	40 to 125 Switching Voltage Regulators High current, high efficiency single inductor buck-boost converter 10-VSON-HR -40 to 125	
SOP-8-4	I2C Bus Repeater	IC - TCA9517ADGK R	U16	Interface - Signal Buffers, Repeaters Level- Transiting I2C Bus Repeater	
SSOP-24	I2C Switch IC	IC - TCA9548APWR	U17	Switch ICs - Various 8-Channel I2C Switch Logic Gates Quadruple 2-input NOR gates	
SSOP-14	Logic Gate (NOR)	IC - SN74HCS7002 QPWRQ1	U18	with Schmitt-trigger inputs 14-TSSOP -40 to 125	
SSOP-14 SSOP-14	Logic Gate (OR) Logic Gate (NAND)	SN74HCS32	U20	Logic Gates Quadruple 2-input OR gates with Schmitt-trigger inputs 14-TSSOP -40 to 125 Logic Gates Quadruple 2-input NAND	
		SN74HCS00	U21	gates with Schmitt-trigger inputs 14- TSSOP -40 to 125	
QFN-10 QFN20	Battery Gauge	IC - MAX17055ETB+ T IC -	U22	Battery Management Stand-Alone ModelGauge m5 Fuel Gauge Interface - I/O Expanders Remote 8-Bit I/O Expander for I2C-Bus	
OT-23-5	Expander LDO Voltage Regulator	PCF8574RGYR IC - TPS7A0533PDB	U23, U24	Expander for I2C-Bus LDO Voltage Regulators Cap-Free NMOS 200mA	
P9211	Battery Management IC	VR IC - AP9211	U25	Battery Management SGL Chip Protection 12Vdss 12Vgss 1000mW	
BRACON_ RYSTAL	7.3728 MHz	Crystal - 7.3728 MHz (Abracon)	X1, X2	Crystals 7.3728MHz 18pF -40C +85C	
pproved		Notes			30
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