

Bill of Materials

Project: FE310 Module
Revision: 0.2
Variant: None



Creation Date: 10/20/2017
Print Date: 2017/11/22

Value	Footprint	Designator	Description	Manufacturer	Part Symbol	Quantity
100n	0402	C1, C2, C5, C6, C7, C8, C9, C10, C14	MLCC SMT Capacitor 100nF 0402	MULTICOMP	MC0402X104M100CT	9
10u	0402	C3, C4, C13, C15, C18	MLCC SMT Capacitor 10uF 0402	TDK	C1005X5R0J106M050BC	5
12p	0402	C11, C12	MLCC SMT Capacitor 12pF 0402	WALSIN	0402N120J500CT	2
3n3	0402	C16	MLCC SMT Capacitor 3.3nF 0402	MULTICOMP	MC0402B332K250CT	1
22u	0603	C17	MLCC SMT Capacitor 22uF 0603	MURATA	GRM188R60G226MEA0D	1
FE310-G000	FE310-G000	IC1		FREEDOM	FE310-G000	1
IS25LP128	WSON_6x5mm_8pin	IC2	Flash Memory 128Mb QPI/QSPI, WSON, RoHS, ET	ISSI	IS25LP128-JKLE	1
SIT1533AC-H5-D14-32.768D	SIT1533AC	IC3	32.768kHz LVCMOS MEMS (Silicon) Oscillator Surface Mount 1.2 V ~ 3.63 V 1.3uA	SITIME	SIT1533AC-H5-D14-32.768D	1
SC18IS600	QFN-24_4x4MM	IC4	IC SPI TO I2C BUS 24-HVQFN	NXP	SC18IS600IBS,151	1
TPS82130	MicroSIP	IC5	Voltage Regulators - Switching Regulators 3-A 17V Step-down Converter Module with Integrated Inductor 8-uSIP -40 to 125	TEXAS INSTRUMENTS	TPS82130SILR	1
AXK6F60347YG	AXK6F60347YG	J1	CONN HEADER BRD/BRD .5MM 60POS	PANASONIC	AXK6F60347YG	1
NTS4173PT1G	SC70-3	Q1	MOSFET P-CH 30V 1.2A SC70-3	ON Semiconductor	NTS4173PT1G	1
100R	0402	R1	SMT Resistor 100R 0402	BOURNS	CR0402-FX-1000GLF	1
100k	0402	R2, R6, R8	SMT Resistor 100k 0402	VISHAY	CRCW0402100KFKEDHP	3
1k	0402	R3, R4, R5	SMT Resistor 0402	MULTICOMP	MCMR04X1001FTL	3
124k	0402	R7	SMT Resistor 124k 0402	WALSIN	WR04X1240FTL	1
DMN2004WK-7	SC70-3	T1	MOSFET N-CH 20V 540MA SC70-3	Diodes Incorporated	DMN2004WK-7	1
X22-16.000-12-30/30/-40+85	CRYSTAL_X22_2.5x2mm	Y1	MERCURY UNITED ELECTRONICS X22-16.000-12-30/30/-40+85 Crystal, 16 Mhz, SMD, 2.5mm x 2mm, 30 ppm, 12 pF, 30 ppm, X22 Series	MERCURY UNITED ELECTRONICS	X22-16.000-12-30/30/-40+85	1
						35

Approved	Notes