

Ext.	Qty	Part Number	Distributor	Value	Description	Designator
77	36	478-1395-1-ND	Digi-Key	100n	Capacitor, surface mount	C1, C2, C7, C8, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C27, C28, C29, C30, C31, C32, C35, C36, C37, C38, C39, C40, C44, C45,
9	2	490-1709-1-ND	Digi-Key	10u	Capacitor, surface mount	C3, C4
13	4	490-1642-1-ND	Digi-Key	10n	Capacitor, surface mount	C5, C10, C11, C33
11	3	399-3827-1-ND	Digi-Key	22u	Tantalum capacitor, surface mount	C6, C12, C34
7	1	399-4134-1-ND	Digi-Key	330u	Tantalum capacitor, surface mount	C9
7	1	399-3908-1-ND	Digi-Key	68u	Tantalum capacitor, surface mount	C23
7	1	311-1111-1-ND	Digi-Key	100p	Capacitor, surface mount	C41
7	1	490-3328-1-ND	Digi-Key	470n	Capacitor, surface mount	C42
9	2		None	NL	Capacitor, surface mount	C43, C52
9	2	311-1122-1-ND	Digi-Key	1n	Capacitor, surface mount	C47, C48
7	1	WM1634-ND	Digi-Key		fiber optic transceiver, 1.25GB/s, MM, LC, SFP	J1
9	2	A24691-ND	Digi-Key		SMA, PCB Mount	J2, J3
9	2	1008LS-102XJLB	Coilcraft	1uH	Inductor	L1, L2
7	1	SAM8137-ND	Digi-Key		Samtec hi-speed header, 0.8mm, 120 pins, 5mm	P1
7	1	A31134-ND	Digi-Key		Header, 5-Pin, Dual row	P2
15	5	311-4.70KCRCT-ND	Digi-Key	4.7K	Resistor, surface mount	R1, R2, R8, R9, R10
13	4	311-49.9CRCT-ND	Digi-Key	49.9	Resistor, surface mount	R3, R5, R24, R25
7	1	311-22.0KCRCT-ND	Digi-Key	22K	Resistor, surface mount	R4
9	2	311-402CRCT-ND	Digi-Key	402	Resistor, surface mount	R6, R7
7	1	311-7.15KFRCT-ND	Digi-Key	7.15K	Resistor, surface mount	R11
7	1	311-1.00KFRCT-ND	Digi-Key	1.00K	Resistor, surface mount	R12
9	2	311-30.0KCRCT-ND	Digi-Key	30K	Resistor, surface mount	R13, R31
13	4	311-10.0KCRCT-ND	Digi-Key	10K	Resistor, surface mount	R14, R15, R29, R30
7	1	311-11.3KCRCT-ND	Digi-Key	11.3K	Resistor, surface mount	R16
7	1	311-1.62KCRCT-ND	Digi-Key	1.62K	Resistor, surface mount	R17
9	2		None	NL	Resistor, surface mount	R18, R28
7	1	311-2.00KCRCT-ND	Digi-Key	2.0K	Resistor, surface mount	R19
7	1	311-8.06KCRCT-ND	Digi-Key	8.06K	Resistor, surface mount	R20
7	1	311-8.20KCRCT-ND	Digi-Key	8.2K	Resistor, surface mount	R21
9	2	311-470CRCT-ND	Digi-Key	470	Resistor, surface mount	R22, R23
7	1	311-1.30KCRCT-ND	Digi-Key	1.3K	Resistor, surface mount	R26
7	1	311-820CRCT-ND	Digi-Key	820	Resistor, surface mount	R27
15	5	5005K-ND	Digi-Key		Testpoint, red	TP1, TP2, TP3, TP4, TP5
7	1	5006K-ND	Digi-Key		Testpoint, black	TP6
9	2	5008K-ND	Digi-Key		Testpoint, orange	TP7, TP8
15	5	296-16845-1-ND	Digi-Key		Dual-Bit Dual Supply Transceiver	U1, U3, U7, U8, U9
11	3	296-16844-1-ND	Digi-Key		Single-Bit Dual Supply Transceiver	U2, U4, U5
7	1	296-15553-1-ND	Digi-Key		Dual FET bus switch for 2.5V/3.3V translation, 5V tolerant	U6
7	1	LT1763CS8-2.5#PBF-ND	Digi-Key		Positive voltage regulator	U10
7	1	296-13624-5-ND	Digi-Key		DIFF TRANSLATOR	U11
7	1	LT1763CS8-5-ND	Digi-Key		Positive voltage regulator	U12
7	1	296-13626-5-ND	Digi-Key		DIFF TRANSLATOR	U13
7	1	LT1763CS8#PBF-ND	Digi-Key		Positive voltage regulator	U14
7	1	595-SN65LVDS2DBVR	Mouser		Single LVDS Receiver	U15
7	1	296-13650-5-ND	Digi-Key		2:2 LVDS crosspoint switch	U16

7	1	296-1240-5-ND	Digi-Key		Dual D-Type Positive Edge-Triggered Flip-Flop	U17
7	1	VC-401-CRFC-205G	Vectron			U18
7	1	OP284ESZ-ND	Digi-Key		Precision Rail-to-Rail Input and Output Operational Amplifier	U19
7	1	296-9845-1-ND	Digi-Key		SN74LVC1G00	U20
7	1	595-SN65LVDT2DBVR	Mouser		Single LVDS Receiver with 100 Ohm termination	U21
490	120					

2 Number of boards

44 Unique SMD components

108 Total number of SMD components

6 Unique through-hole components

12 Total number of through-hole components

50 Unique components

120 Total number components