

DDL 2v1 - Bill of Material

Component	Manuf.	Type	Description	Pcs	Supplier	Comment
Integrated circuits						
APEX FPGA	ALTERA	EP20K60EQC208-2	PQFP208	1	EBV	DIU, and SIU w/o JTAG
APEX FPGA	ALTERA	EP20K100EQC208-2	PQFP208	1	EBV	SIU w/ JTAG
Serializer	Texas	TLK25011RCP	EDQUAD80	1	EBV	
Optical Transceiver	Agilent	HFBR-5720(A)L	SFP	1	EBV	
Serial EPROM, 256x8 bit	Microchip	24LC02B	SOIC8	1	ChipCAD	
Configuration EEPROM	ALTERA	EPC2TC32	TQFP7X7-32(N)	1	EBV	
Low drop-out voltage regulator	Linear Tech.	LT1963EST-1.8V	1.5A, SOT223	1	Zilex, Eurodis, ChipCAD	
Low drop-out voltage regulator	Linear Tech.	LT1963EST-2.5V	1.5A, SOT223	1	Zilex, Eurodis, ChipCAD	
Current sense amplifier	Linear Tech.	LT1787CMS8, -CS8	MSOP8	1	Zilex, Eurodis	
12-bit A/D converter	Linear Tech.	LTC1285CS8	SOIC8	1	Zilex, Eurodis	
Power-on reset chip	Nat. Semi.	LP3470M5-3.08	SOT23-5	1	Zilex, EBV	
Quartz oscillator	Pletronics	SM7745DV-106.25 MHz	T	1	Zilex	
Connectors						
DDL interface connectors	Tyco (AMP)	120527-1	2x32 pin, 1mm	2	Spoerle	
config. download connector	Samtec	FTS105	smd 2x5pin, 100 mil	1	Farmelco	
SFP Host Board Connector	Tyco (AMP)	1367073-1	smd, 2x10pin, 0.8 mm	1	Spoerle, Tyco, Farmelco	
Cage for SFP optical transceiver	Infineon	V23818-S5-N1	Press-fit	1	Spoerle, Farmelco	
LEDs, diodes						
LED (yellow)	LiteON	LTSTC170YKT	smd 0805	2	RET	
LED, bicolor (super red / green)	Dialight	591-3001-0xx		1	Solamex	
diode	-	BAT17	SOT23	1	Radar-T.	
Inductors						
ferrit	World Products	HH-1M-3216-501JT	1206	7	Schaffner	
Capacitors						
smd ceramic capacitor	-	47pF	0603	1	Radar-T.	
smd ceramic capacitor	-	10nF	0603	12	Radar-T.	
smd ceramic capacitor	-	100nF	0603	58	Radar-T.	
smd ceramic capacitor	-	4.7uF	1206	3	Radar-T.	
smd ceramic capacitor	-	10uF	1206	10	Radar-T.	
smd tantalum capacitor	-	10uF / 6.3V min.	A size	2	Radar-T.	
smd tantalum capacitor	-	100uF / 10V min.	C size	2	Radar-T.	
Resistors						
current sense resistor	-	1	0805 !	1	RET	
serial termination resistors	-	33	0603	4	Radar-T.	
resistors	-	51	0603	5	Radar-T.	
resistors	-	82	0603	1	Radar-T.	
resistors	-	100	0603	2	Radar-T.	
resistors	-	120	0603	1	Radar-T.	
resistors	-	200	0603	2	Radar-T.	
resistors	-	220	0603	2	Radar-T.	
resistors	-	810	0603	1	Radar-T.	
HW_ID write-protect resisitor	-	4.7k	0603	3	Radar-T.	
pull-up resistors	-	10k	0603	5	Radar-T.	
pull-up resistors	-	20k	0603	1	Radar-T.	
jumpers (0 ohm)	PHI COMP	ARC242, 4x0	4x0603	1	RET	
serial termination resistor	-	ARC242, 4x33	4x0603	11	RET	
pull-up resistor	-	ARC242, 4x10k	4x0603	4	RET	
Mechanical parts						
Stand-off	Schroff	height: 10mm			NB Elektronik	
Screw	any	M2.5 x 6mm			any	