

K	KEY
CR: Cross CS: Consign PL: Pack List	D: Drawing B: BOM LBL: Label Q: Quality Check

ASSEMBLY NUMBER: 12-00723 REV: 7

ASSEMBLY NAME: FINAL ASSY, EXPLORER 16 DEVELOPMENT BOARD

	Qty	Part Number	Rev		Descripti	on		Manufacturer	Vendor / Part No	C C F	
1	1	11-00244	2	ASSY, EXPLORER 16 8	& 100P PIMS					Y	BQ
2	1	DS30030	*	DOC, WARRANTY/REG	GISTRATION CARD					YY	DOC
3	1	DS51282	*	PRODUCT CASE, SMA	LL TOOLS BOX - 8x5.25x1	.625				Y	PART
						UNISOURCE	=	▼ RoHS Compliant	Avail:		
4	1	DS30210	*	DOC, "IMPORTANT INF	FORMATION" MICROCHIP	INFORMATION				YY	DOC
5	1	08-00237	3	LABEL, PRODUCT, FIN	NAL ASSY, SERIAL NO. OF	TIONAL					LBL
6	1	CAB0003		CABLE, RS-232 DATA	CABLE, DB9 M/F SHIELDE	D 6 FT.				YY	PART
				SPC TECHNOLO SPC	C19944	NEWARK	83K3689	✓ RoHS Compliant	Avail:		
				GC ELECTRONI 45-3	308	NEWARK	28M9412	▼ RoHS Compliant	Avail:		
7	1	DS51588	*	SOFTWARE, EXPLORE	ER 16 DEVELOPMENT KIT	•				YY	DOC



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ASSEMBLY NUMBER: 11-00244 REV: 2

ASSEMBLY NAME: ASSY, EXPLORER 16 & 100P PIMS

Qty	y Part Number	Rev	Description	Manufacturer	Vendor / Part No	-	C P S L	Туре
1 1	02-01872	5.1	PCB ASSY, EXPLORER 16 DEVELOPMENT BOARD				Y	В
8 1	02-01863-01	2	PCB ASSY, PIC24F 100P TO 100P QFP PLUG IN MODULE  @U1A of 02-01872				Y	В
9 1	02-01863-02	3	PCB ASSY, dsPIC33 GP 100P TO 100P QFP PLUG IN MODULE place in antistatic bag				Y	В



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ASSEMBLY NAME: PCB ASSY, EXPLORER 16 DEVELOPMENT BOARD

Qt	y Part Number	Rev		Descripti	on		Manufacturer	Vendor / Part No	C C R S	
1 1	02-01872-D	5.1 PC	CB ASSY DWG, E	EXPLORER 16 DEVELOPMENT						D
2 1	03-01872	5.1 SC	CHEMATIC, EXP	LORER 16 DEVELOPMENT BC	ARD					D
3 1	04-01872	5.1 PC	CB FABRICATION	N, EXPLORER 16 DEVELOPME	ENT BOARD					D
4 1	08-00126		ABEL, NEED HEL	P WITH ASSY/SERIAL						LBL
5 1	MIC0421	IC	SMT, PIC18LF4						Y	PART
		M	IICROCHIP	PIC18LF4550-I/ML		DEBF17TRXALF	▼ RoHS Compliant	Avail:		
6 1	MIC0249		SMT, TC1047A\ U4	/NBTR, TEMP SENSOR, 3L SC	T-23				Y	PART
·		M	IICROCHIP	TC1047AVNBTR		Y4BR2YCQXA00	☐ RoHS Compliant	Avail:		
		M	IICROCHIP	TC1047AVNBTRG		Y4BR2YCVXA00	✓ RoHS Compliant	Avail:		
		M	IICROCHIP	TC1047AVNBTR		Y4BR2YC6XA00	▼ RoHS Compliant	Avail:		
7 1	MIC0401		SMT, 25LC256, U5	128K/256K-BIT SPI SERIAL EE	PROM 8L SOIC				Y	PART
		M	IICROCHIP	25LC256-I/SN		D5AH17C2XA00	▼ RoHS Compliant	Avail:		
8 27	CAP0013		C10, C11, C13, 0	805 CER 50V 10% X7R C16, C17, C22, C23, C25, C26, C43, C44, C46, C48, C50, C51,		33, C34, C35, C39,				PART
		1	EMET	C0805C104M5RAC			▼ RoHS Compliant	Avail:		
		K	EMET	C0805C104M5RAC			▼ RoHS Compliant	Avail:		
ı		K	EMET	C0805C104K5RACTU	DIGIKEY	399-1170-1-ND	▼ RoHS Compliant	Avail:		
		К	EMET	C0805C104M5RACTU	DIGIKEY	399-1169-1-ND	✓ RoHS Compliant	Avail:		
		N	IC COMPONEN	NMC0805X7R104K50TRPF			✓ RoHS Compliant	Avail:		
		P	ANASONIC	ECJ-2YB1H104K	DIGIKEY	PCC1840TR-ND	✓ RoHS Compliant	Avail:		
		T.	AIYO YUDEN	UMK212BJ104KG-T	DIGIKEY	587-1279-2-ND	✓ RoHS Compliant	Avail:		
		Y	AGEO	08052R104K9B20D	DIGIKEY	311-1140-2-ND	✓ RoHS Compliant	Avail:		
		С	AL-CHIP	GMC21X7R104K50NTLF			✓ RoHS Compliant	Avail:		
		X	ICON	CC501B104K	MOUSER		RoHS Compliant	Avail:		



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Qty Part Nun	nber Rev	Descriptio	n		Manufacturer	Vendor / Part No	C C R S	Р L Тур
9 1 CAP0280	CAP SMT, 10uF	0805 CER 6.3V 20% , X5R						PAR
	C14							
	MURATA	GRM21BF50J106ZE01L	DIGIKEY	490-1746-1-ND	✓ RoHS Compliant	Avail:	.	
	PANASONIC	ECJ-2FB0J106M	DIGIKEY	PCC2225TR-ND	▼ RoHS Compliant	Avail:		
10 6 CAP0075	CAP SMT, 22pF	0805 CER 50V 5% NP0						PAR
		9, C20, C24, C30						
	PANASONIC	ECJ-2VC1H220J	DIGIKEY	PCC220CNCT-ND	▼ RoHS Compliant	Avail:		
	VISHAY/BC CO	M VJ0805A220JXACW1BC	DIGIKEY	BC1260CT-ND	▼ RoHS Compliant	Avail:		
	XICON	CC501N220J	MOUSER		☐ RoHS Compliant	Avail:		
	YAGEO	0805CG220J9B200	DIGIKEY	311-1103-1-ND	▼ RoHS Compliant	Avail:		
11 3 CAP0167	CAP SMT, 47uF	VS ELEC 16V 20%					-	PAR
	C45, C47, C49	9						
	PANASONIC	ECE-V1CA470SP	DIGIKEY	PCE3064TR-ND	☐ RoHS Compliant	Avail:		
	NIC COMPONE	N NACE470M16V6.3x5.5TR13F			▼ RoHS Compliant	Avail:		
	PANASONIC	EEE-1CA470SP	DIGIKEY	PCE3889TR-ND	▼ RoHS Compliant	Avail:		
12 9 LED0002	LED SMT, 2.7x3.	5mm GREEN CLEAR PLCC-2						PAR
		5, D6, D7, D8, D9, D10						
	FAIRCHILD SEI	MI QTLP670C-4			RoHS Compliant	Avail:		
	CML INNOVATI	V CMD67-21VGC/TR8	NEWARK	91B5226	▼ RoHS Compliant	Avail:		
	FAIRCHILD SEI	MI QTLP670NC-4			▼ RoHS Compliant	Avail:		
	FAIRCHILD SEI	MI QTLP670NC-4			▼ RoHS Compliant	Avail:	'	
	LITE-ON	LTST-T670GKT			▼ RoHS Compliant	Avail:		
	LITE-ON	LTL-94PGKTA	DIGIKEY	160-1120-2-ND	▼ RoHS Compliant	Avail:		
	VISHAY SEMI	TLMG3100	NEWARK	95B6921	▼ RoHS Compliant	Avail:		
13 1 DIODE0096	DIODE SMT, SW	/ITCHING 1N4148 75V 200mW SO	D-323					PART
	DIODES INC	1N4148WS-7	DIGIKEY	1N4148WSDITR-N	RoHS Compliant	Avail:		
			DIGIKEY	1N4148WS-FDICT-			,	



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	Qty	Part Number	Rev		Description			Manufacturer	Vendor / Part No	C F	
14	1	DIODE0005	DI	IODE, SCHOTTKY	/ 1N5819 40V 1.0A DO-41						PART
				`	r silkscreen polarity is reversed)						ļ
			C	ON SEMI	1N5819			☐ RoHS Compliant			
			D	DIODES INC	1N5819			✓ RoHS Compliant	Avail:		ļ
15	1	CON0001		ONN, RECPT, D-S P1	SUB, 9P, RT ANGLE W/ JACK SC	REWS					PART
,			S	SPC TECHNOLO	SPC15457	NEWARK	79K5032	✓ RoHS Compliant	Avail:		
			F	FUK HING INDU	DR-9S	CAMTECH		RoHS Compliant	Avail:		
			Т	YCO/AMP	5-747844-5			▼ RoHS Compliant	Avail:		
			К	CYCON	K22-E9S-NJ			▼ RoHS Compliant	Avail:		
Į Į			К	OBICONN	152-3409			▼ RoHS Compliant	Avail:		
					1008-9S-R	JAMECO	104952	▼ RoHS Compliant	Avail:		
			т	YCO/AMP	747844-5	DIGIKEY	A23304-ND	RoHS Compliant	Avail:		
ļ			s	SPC TECHNOLO	DE9S-FRS			RoHS Compliant	Avail:		
			Т	YCO/AMP	7-747844-0			▼ RoHS Compliant	Avail:		
16	1	CON0002		ONN, JACK, 2.5m J12	m DC PC MOUNT						PART
			F	FUK HING INDU	DC-003-250	CAMTECH		RoHS Compliant	Avail:		
			K	KYCON	KLDX-0202-BHT	MOUSER	806-KLDX-0202-BH	▼ RoHS Compliant	Avail:		
l			S	SWITCHCRAFT	RAPC712X	DIGIKEY	RAPC712X-ND	✓ RoHS Compliant	Avail:		
			P	POWER DYNAMI	DC-001-B-CRSN			▼ RoHS Compliant	Avail:		
J			К	CYCON	KLDX-0202-B	MOUSER	806-KLDX-0202-B	▼ RoHS Compliant	Avail:		
			R	RDI	RDJ-005B			RoHS Compliant	Avail:		
			R	RAYCON TECH	RT-0202-2.5			RoHS Compliant	Avail:		
			К	(YCON	KLD-0202-B			RoHS Compliant	Avail:		
			L	ZR ELECTRONI	DJ005B			RoHS Compliant	Avail:		
			S	SWITCHCRAFT	RAPC712	DIGIKEY	SC1152-ND	RoHS Compliant	Avail:		



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17	17 1 CON0052			CONN, MOD JACK JP1	6-6 SIDE ENTRY LOW PROFILE	E (RJ11)					PART
				TYCO/AMP	5555165-1	DIGIKEY	A31422-ND	✓ RoHS Compliant	Avail:		
				TYCO/AMP	5555165-1	NEWARK	42K8762	✓ RoHS Compliant	Avail:		
18	1	CON0042		CONN, HDR, 1x3 E J7	BREAKAWAY, 0.100" PITCH, 0.02	25 SQ POST, GD	(0.100"/0.230")				PART
				3M	929647-09-36-I (1x36 POS BREAKAWAY)	DIGIKEY	929647-09-36-ND	▼ RoHS Compliant	Avail:		
				SAMTEC	TSW-103-07-L-S			✓ RoHS Compliant	Avail:		
				SAMTEC	TSW-103-07-G-S			✓ RoHS Compliant	Avail:		
				SAMTEC	TSW-103-07-S-S			▼ RoHS Compliant	Avail:		
				MOLEX	90120-0763	DIGIKEY	WM8085-ND	▼ RoHS Compliant	Avail:		
				HARWIN	M20-9990305	FARNELL	512047	☐ RoHS Compliant	Avail:		
				MOLEX	90120-0763	NEWARK	26M7871	▼ RoHS Compliant	Avail:		
19	1	CON0149		CONN, HDR, 1x2 E JP2	BREAKAWAY, 0.100" PITCH, 0.02	25 SQ POST (0.1	00"/0.230")				PART
				SAMTEC	TSW-102-07-G-S			✓ RoHS Compliant	Avail:		
				SAMTEC	TSW-102-07-S-S			▼ RoHS Compliant	Avail:		
20	4	CON0196		CONN, HDR, 1x25 U1A	0.050" (0.230"/0.120")						PART
				SAMTEC	TMS-125-01-G-S			✓ RoHS Compliant	Avail:		
21	1	CON0197		CONN, RECPT, 12 J5	0POS 1MM CARD EDGE						PART
				SAMTEC	MEC1-160-02-S-D-A			✓ RoHS Compliant	Avail:		
22	1	CON0013		CONN, RECPT, US J8	SB TYPE-B R/A						PART
				PANASONIC/AR	AXJ115301S			☐ RoHS Compliant	Avail:		
				KYCON	KUSB-BS-1-N-WHT			▼ RoHS Compliant	Avail:		
				MILL-MAX	897-43-004-90-000000	DIGIKEY	ED90064-ND	✓ RoHS Compliant	Avail:		
				PANASONIC/AR	AXJ115301S-F			✓ RoHS Compliant	Avail:		



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	Qty	Part Number	Rev	Description	1		Manufacturer	Vendor / Part No	C C	
23	1	IC00295	IC SMT, REG, LM Q1	1117, 3.3V 800mA LDO SOT-223						PART
			NATIONAL SEMI	LM1117IMP-3.3 NOPB	DIGIKEY	LM1117IMP-3.3CT-	▼ RoHS Compliant	Avail:		
24	1	IC00291		1117, 5.0V 800mA LDO SOT-223						PART
			Q2	LM1117IMP-5.0 NOPB	DIGIKEY	LM1117IMP-5.0CT-	✓ RoHS Compliant	Avail:		
25	1	IC00292		CVR MULTCH RS232, 16L SSOP	DIGINET	LW11171WII -3.001-	V Korio Compilant	Avaii.		PART
23	'	1000292	U3	5 VIX WOLTOTT (\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\						I AKI
,			TEXAS INSTRU	MAX3232CDBR	DIGIKEY	296-13093-1-ND	✓ RoHS Compliant	Avail:		
26	2	IC00294		053, ANALOG MUX/DEMUX, 8 CH/	A, 16 TSSOP					PART
1			U6, U7 TEXAS INSTRU	CD74HCT4053PWR	DIGIKEY	296-9279-2-ND	✓ RoHS Compliant	Avail:		
27	3	RSMT0091		0HM 1/8W 5% 0805	DIGIRLI	290-921 9-2-11D	Koris Compliant	Avaii.		PART
21	3	NOM10091	R1, R2, R5	1 IIVI 1/0 VV 3 /0 0003						I AKI
			SEI (STACKPOL	RMCF-1/8-4.7K-5%			▼ RoHS Compliant	Avail:		
			YAGEO/PHYCO	RC0805JR-074K7L	DIGIKEY	311-4.7KARTR-ND	▼ RoHS Compliant	Avail:		
Ţ			YAGEO/PHYCO	9C08052A4701JLPFT			▼ RoHS Compliant	Avail:		
			KOA SPEER	RK73B2ATTD472J			▼ RoHS Compliant	Avail:		
			PANASONIC	ERJ-6GEYJ472V	DIGIKEY	P4.7KACT-ND	▼ RoHS Compliant	Avail:		
Į.			YAGEO/PHYCO	9C08052A4701JLHFT	DIGIKEY	311-4.7KACT-ND	RoHS Compliant	Avail:		
			ROHM	MCR10EZHJ472	DIGIKEY	RHM4.7KACT-ND	▼ RoHS Compliant	Avail:		
			PANASONIC	ERJ-6GEYJ472V	DIGIKEY	P4.7KATR-ND	▼ RoHS Compliant	Avail:		
28	3	RSMT0103		HM 1/8W 5% 0805			1			PART
			R10, R14, R49 YAGEO/PHYCO	9C08052A4702JLHFT	DIGIKEY	311-47KACT-ND	RoHS Compliant	Avail:		
			KOA SPEER	RK73B2ATTD473J	DIGIRET	311-47 KAC1-ND	✓ RoHS Compliant			
1			PANASONIC	ERJ-3GSYJ473V	DIGIKEY	P47KGTR-ND	RoHS Compliant			
					_	-				
			PANASONIC ROHM	ERJ-6GEYJ473V	DIGIKEY	P47KACT-ND RHM47KACT-ND	RoHS Compliant			
				MCR10EZHJ473	DIGIKEY	KINI4/ KAC I-ND	RoHS Compliant	Avail:		
1			SEI (STACKPOL				RoHS Compliant			
			YAGEO/PHYCO	9C08052A4702JLPFT			✓ RoHS Compliant	Avail:		



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29 15	RSMT0097	RES SMT, 470-OH	M 1/8W 5% 0805						PART
			R26, R28, R29, R34, R35, R36, R3	7, R38, R39, R4	40, R41, R42		A 11		
		KOA SPEER	RK73B2ATTD471J	DIOUEN	044 4704 DTD ND	RoHS Compliant	Avail:		
		YAGEO/PHYCO	RC0805JR-07470RL	DIGIKEY	311-470ARTR-ND	RoHS Compliant	Avail:		
		YAGEO/PHYCO	9C08052A4700JLPFT			✓ RoHS Compliant			
		SEI (STACKPOL	RMCF-1/8-470-5%			✓ RoHS Compliant	Avail:		
		PANASONIC	ERJ-6GEYJ471V	DIGIKEY	P470ATR-ND	▼ RoHS Compliant	Avail:		
		YAGEO/PHYCO	9C08052A4700JLHFT	DIGIKEY	311-470ATR-ND	☐ RoHS Compliant	Avail:		
		PANASONIC	ERJ-6GEYJ471V	DIGIKEY	P470ACT-ND	▼ RoHS Compliant	Avail:		
30 2	RSMT0050	RES SMT, 1.0M-O R19, R20	HM 1/8W 5% 0805						PART
		YAGEO/PHYCO	9C08052A1004JLHFT	DIGIKEY	311-1.0MATR-ND	RoHS Compliant	Avail:		
		YAGEO/PHYCO	9C08052A1004JLPFT			▼ RoHS Compliant	Avail:		
		KOA SPEER	RK73B2ATTD105J			✓ RoHS Compliant	Avail:		
		PANASONIC	ERJ-6GEYJ105V	DIGIKEY	P1.0MACT-ND	✓ RoHS Compliant	Avail:		
		SEI (STACKPOL	RMCF 1/10 1M 5% TR			✓ RoHS Compliant	Avail:		
31 1	RSMT0017	RES SMT, 10-OHN	/I 1/8W 5% 0805						PART
		R21 YAGEO/PHYCO	9C08052A10R0JLPFT			✓ RoHS Compliant	Avail:		
		NIC COMPONEN	NRC10J100TRF			✓ RoHS Compliant	Avail:		
		PANASONIC	ERJ-6GEYJ100	DIGIKEY	P10ACT-ND	✓ RoHS Compliant	Avail:		
		SEI (STACKPOL	RMCF 1/10 10 5% R			✓ RoHS Compliant	Avail:		
		YAGEO/PHYCO	9C08052A10R0JLHFT	DIGIKEY	311-10ACT-ND	☐ RoHS Compliant			
32 2	RSMT0021	RES SMT, 100-OH							PART
		R24, R59 PANASONIC	ERJ-6GEYJ101V	DIGIKEY	P100ATR-ND	✓ RoHS Compliant	Avail:		
		ROHM	MCR10EZHJW100E			✓ RoHS Compliant			
		SEI (STACKPOL				✓ RoHS Compliant			
		YAGEO/PHYCO	9C08052A1000JLPFT			✓ RoHS Compliant			
		YAGEO/PHYCO		DIGIKEY	311 100ACT ND	RoHS Compliant			
		TAGEO/PHYCO	9C08052A1000JLHFT	DIGINET	311-100ACT-ND	□ Kono Compliant	Avail:		



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Qty Part Numb	er Rev	Descri	ption		Manufacturer	Vendor / Part No	C C	Туре
33 2 RSMT0002	RES SMT, 0-OHM	1 0805						PART
	R11, R16	DMCE 4/40 0 50/ TD	NIT VA/NA A NI		Dalle Campliant	A = iI.		
	SEI (STACKPOL		NEWMAN		RoHS Compliant	Avail:		
	YAGEO/PHYCO				RoHS Compliant			
	PANASONIC	ERJ-6GEY0R00V	DIGIKEY	P0.0ATR-ND	▼ RoHS Compliant	Avail:		
	ROYAL OHM	HMWAJ0000T50	FARNELL	772239	RoHS Compliant	Avail:		
	YAGEO/PHYCO	9C08052A0R00JLHFT	DIGIKEY	311-0.0ACT-ND	☐ RoHS Compliant	Avail:		
	SEI (STACKPOL	RMC 1/10 0 5% TR	NEWMAN		☐ RoHS Compliant	Avail:		
	YAGEO/PHYCO	RC0805JR-070RL	DIGIKEY	311-0.0ARTR-ND	✓ RoHS Compliant	Avail:		
	NIC COMPONEN	NRC10Z0TRF			▼ RoHS Compliant	Avail:		
34 8 RSMT0027		HM 1/8W 5% 0805 R33, R44, R50, R51, R52 MCR10EZHJW10K			✓ RoHS Compliant	Avail:		PART
	YAGEO/PHYCO	RC0805JR-0710KL	DIGIKEY	311-10KARTR-ND	▼ RoHS Compliant	Avail:	1	
		RMCF 1/10 10k 5% TR	DIGINET	011 1010 11011	✓ RoHS Compliant	Avail:		
	PANASONIC	ERJ-6GEYJ103V	DIGIKEY	P10KACT-ND	RoHS Compliant		,	
			DIGIKET	PTUKACT-ND				
	KOA SPEER	RK73B2ATTD103J	21011/21/		RoHS Compliant			
	YAGEO/PHYCO	9C08052A1002JLHFT	DIGIKEY	311-10KATR-ND	RoHS Compliant	Avail:	,	
	YAGEO/PHYCO	9C08052A1002JLPFT			▼ RoHS Compliant	Avail:	Щ	
35 1 RSMT0406	RES SMT, 1.3K-C R43	HM 1/8W 5% 0805						PART
	YAGEO/PHYCO	9C08052A1301JLHFT		311-1.3KACT-ND	☐ RoHS Compliant	Avail:		
	YAGEO/PHYCO	9C08052A1301JLPFT			▼ RoHS Compliant	Avail:		
36 1 RSMT0407	RES SMT, 100-OF	HM 1/2W 5% 2010						PART
	PANASONIC	ERJ-12ZYJ101U	DIGIKEY	P100WCT-ND	▼ RoHS Compliant	Avail:		



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37 2	2	RSMT0008	RES SMT, 1.0K-C	HM 1/8W 5% 0805							PART
			R8, R27				_				
			YAGEO/PHYCO	9C08052A1001JLHFT	DIGIKEY	311-1.0KACT-ND	RoHS Compliant	Avail:			
			YAGEO/PHYCO	9C08052A1001JLPFT			▼ RoHS Compliant	Avail:			
·			KOA SPEER	RK73B2ATTD102J			▼ RoHS Compliant	Avail:			
			PANASONIC	ERJ-6GEYJ102V	DIGIKEY	P1.0KATR-ND	▼ RoHS Compliant	Avail:			
			SEI (STACKPOL	RMCF 1/10 1k 5% TR			▼ RoHS Compliant	Avail:			
38	1	RPOT0005		HM 1/2W THUMBWH CERM ST							PART
			R6 BOURNS	3352T-1-103	DIGIKEY	3352T-103-ND	Della Compliant	A ! ! .			
					_		RoHS Compliant	Avail:			
			BOURNS	3352T-1-103LF ISH BUTTON SPST MOM 6MM 160	DIGIKEY	3352T-103LF-ND	▼ RoHS Compliant	Avail:		$\perp$	
39 5	5	SWITCH0003					PART				
			S1, S3, S4, S5, E-SWITCH	TL3301NF160QG/TR	DIGIKEY	EG1867CT-ND	✓ RoHS Compliant	Avail:			
			E-SWITCH	TL3301NF260QG	DIGIKEY	EG1868TR-ND	▼ RoHS Compliant	Avail:			
			E-SWITCH	TL3301NF260QG/TR	DIGIKEY	EG1868CT-ND	✓ RoHS Compliant	Avail:			
			OMRON	B3S-1002	DIGIKEY	SW416-ND	RoHS Compliant				
			OMRON	B3S-1000	DIGIKEY	SW415-ND	RoHS Compliant	Avail:			
40 4	4	CW/ITCL 10054			DIGIRLI	3W413-ND	V Koris Compilant	Avaii.		_	DADT
40	1	SWITCH0051	SWITCH, SLIDE S	SPDT PC MNT L=2MM							PART
			E-SWITCH	EG1271	DIGIKEY	EG1918-ND	▼ RoHS Compliant	Avail:			
41 ′	1	OSC0031	OSC SMT, 20.000	MHz CRYSTAL 20pf CSM-7							PART
			Y1								
			ECS INC	ECS-200-20-5PDN-TR	DIGIKEY	XC741TR-ND	RoHS Compliant	Avail:			
			ECS INC	ECS-200-20-5PX-TR			✓ RoHS Compliant	Avail:			
			ECS INC	ECS-200-20-5P-TR	DIGIKEY	XC581TR-ND	☐ RoHS Compliant	Avail:			
,			ECS INC	ECS-200-20-5PXDN-TR	DIGIKEY	XC1302TR-ND	▼ RoHS Compliant	Avail:			



KEY						
CR: Cross CS: Consign PL: Pack List	D: Drawing B: BOM LBL: Label Q: Quality Check					

ASSEMBLY NUMBER: 02-01872 REV: 5.1

ASSEMBLY NAME: PCB ASSY, EXPLORER 16 DEVELOPMENT BOARD

c	lty	Part Number	Rev	Descripti	on		Manufacturer	Vendor / Part No	C C R S	P L Typ
42 ′	OSC0019	1		CRYSTAL 8mm (WATCH TYPE)						PAR
			Y2 ECS INC	ECS-3X8	DIGIKEY	VOOL ND	Dalle Campliant	A ! .		
i					_	X801-ND	RoHS Compliant	1	.	
			CITIZEN	CMR200TB32.768KDZFTR	DIGIKEY	300-2065-1-ND	▼ RoHS Compliant	Avail:		
			ECS INC	ECS-3X8X	DIGIKEY	X1123-ND	▼ RoHS Compliant	Avail:		
			HEC INC/HOOR	RA HE38-32.768K-12.5	CAMTECH		▼ RoHS Compliant	Avail:		
43 ′	OSC0075		OSC SMT, 8.000 Y3	MHz CRYSTAL 20pf CSM-7						PAR
			ECS INC	ECS-80-20-5PX-DN			▼ RoHS Compliant	Avail:		
44 2	MISC002	1	MISC, TEST POI	NT, OVAL PROFILE W/COLOREI	STANDOFF RE	D (0.063" HOLE)				PAR
			, , , , , , , , , , , , , , , , , , ,	TP-106-01-02			▼ RoHS Compliant	Avail:		
45 1 MISC0020			MISC, TEST POI	INT, OVAL PROFILE W/COLOREI	O STANDOFF BLA	ACK (0.063" HOLE)				PAR
				TP-106-01-00			▼ RoHS Compliant	Avail:		
46 5	MISC0022	2	MISC, RUBBER place at botton	FEET, SQ 0.50x0.23 HIGH BLACK n side of board	(					PAR
			3M	SJ-5518	DIGIKEY	SJ5518-0-ND	▼ RoHS Compliant	Avail:		
47 2	CON0084	<u> </u>	CONN, SHUNT, JP2, J7 (rightn	2-PIN SHORTING SHUNT (.100" S	SPACING)					PAR
			SULLINS	SSC02SYAN	DIGIKEY	S9002-ND	▼ RoHS Compliant	Avail:		
ı			TYCO/AMP	382811-6	DIGIKEY	A26227-ND	▼ RoHS Compliant	Avail:	'	
			HARWIN	M7567-05	FARNELL	150410	RoHS Compliant	Avail:		
			SAMTEC	SNT-100-BK-G			✓ RoHS Compliant	Avail:		
48 (	-SPARE-		-SPARE- LOCAT	TION DO NOT INSTALL						PAR
				1, J2, J6, J9, J14, LCD1, LCD2, L0 , R53-R58, R60-R67, U1	CD3, R3, R4, R9,	R13, R15, R17, R18,				
49 <i>´</i>	CON0199	1	CONN, HDR, 2x7 J13 (clip both	7 BREAKAWAY, 0.025 SQ POST (	(0.115"/0.230")					PART
			SAMTEC	TSW-107-23-L-D			▼ RoHS Compliant	Avail:		



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ASSEMBLY NUMBER: 02-01872 REV: 5.1

ASSEMBLY NAME: PCB ASSY, EXPLORER 16 DEVELOPMENT BOARD

	Qty	Part Number	Rev	Descrip	tion		Manufacturer	Vendor / Part No	_	C P S L	
50	1	CON0229		CONN, HDR, 1x6 BREAKAWAY, 0.100" PITCH, 0.025 SQ, GD (0.230/0.100) J14 (PICKIT2)							PART
			SAMTEC	TSW-106-07-G-S			▼ RoHS Compliant	Avail:			
			SAMTEC	TSW-106-07-S-S			▼ RoHS Compliant	Avail:			
			SAMTEC	TSW-106-07-T-S			✓ RoHS Compliant	Avail:			
51	0	-COMMENT-									PART
			LCD Configu	rations below:							
52	0	-COMMENT-									PART
			CONFIG 1:	Populate Lines 53-54							
53	1	LCD0015	LCD MODULE	16 CHAR x 2 ROW, 3V							PART
			@LCD4								
			LUMEX	LCM-S01602DTR/M	DIGIKEY	67-1781-ND	▼ RoHS Compliant	Avail:			
54	1	CON0200	CONN, HDR, 1	x16 BREAKAWAY, 0.100" PTCH,	0.025 SQ POST, GD	0 (0.095"/0.105")					PART
			LCD4								
			SAMTEC	TSW-116-06-G-S			✓ RoHS Compliant	Avail:			
55	0	-COMMENT-							<b>'</b>		PART
			CONFIG 2:	Populate Line 56							
56	1	LCD0016		16 CHAR x 2 ROW, 3V							PART
			LCD1								
			TIANMA MICE	ROE TM162JCAWG1	FUTURE		✓ RoHS Compliant	Avail:			
			TRULY	TSB1G7000-E			▼ RoHS Compliant	Avail:			



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ASSEMBLY NAME: PCB ASSY, dsPIC33 GP 100P TO 100P QFP PLUG IN MODULE

Qty	Part Number	Rev	Description	n .		Manufacturer	Vendor / Part No	C C	
		T	<u> </u>			Manuacture	vendoi / i ait No	Λ 3	
1 1	02-01863-D	5 PCB ASSY DW	G, 100P TO 100P QFP PLUG IN MO	JDULE					D
2 1	03-01863	5 SCHEMATIC, I	PIC24 100P TO 100P QFP PLUG IN	MODULE					D
3 1	04-01863	5 PCB FABRICA	TION, PIC24 100P TO 100P QFP PL	LUG IN MODULE					D
4 1	08-00308		JCT NUMBER, ASSEMBLY NUMBE	R W/ REVISION	(SMALL)				LBL
5 1	MIC0410	IC SMT, dsPIC U1	33FJ256GP710 100P TQFP (14x14)						PART
		MICROCHIP	dsPIC33FJ256GP710-I/PF		YGAG17E5XBFF	▼ RoHS Compliant	Avail:		
6 4	CON0181	CONN, RECPT	, 1x25 0.050" (1.27mm) HIGH PROF	FILE, STRAIGHT,	GOLD				PART
'		SAMTEC	SMS-125-01-G-S			▼ RoHS Compliant	Avail:		
7 7	CAP0011	*	F 0603 CER 16V 10% X7R						PART
			C4, C5, C7, C8						
		PANASONIC	ECJ-1VB1C104K	DIGIKEY	PCC1762TR-ND	▼ RoHS Compliant	Avail:		
		CAL-CHIP	GMC10X7R104K16NTLF			✓ RoHS Compliant	Avail:		
		YAGEO	06032R104K7B20D	DIGIKEY	311-1088-1-ND	✓ RoHS Compliant	Avail:		
		NIC COMPON	EN NMC0603X7R104K16TRPF			▼ RoHS Compliant	Avail:		
		TAIYO YUDEN	N EMK107B7104KA-T	NEWARK	86H5248	✓ RoHS Compliant	Avail:		
		TAIYO YUDEN	N EMK107B7104KA-T	DIGIKEY	587-1240-2-ND	✓ RoHS Compliant	Avail:		
8 1	CAP0171	· ·	F 0805 CER 16V 10% X7R						PART
		C6 KEMET	C0805C105K4RACTU	DIGIKEY	399-1284-2-ND	▼ RoHS Compliant	Avail:		
		KEMET	C0805C105K4RAC	5.0	220 12012 110	<u>                                     </u>	Avail:		
						RoHS Compliant			
		SAMSUNG	CL21B105KONE			RoHS Compliant	Avail:		



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ASSEMBLY NAME: PCB ASSY, dsPIC33 GP 100P TO 100P QFP PLUG IN MODULE

Qty	Part Number	Rev	Desc	ription		Manufacturer	Vendor / Part No	C C	
9 1	RSMT0001	RES SMT, 0-OHM R1 NIC COMPONEN PANASONIC PANASONIC SEI (STACKPOL	NRC06Z0TRF ERJ-3GSY0R00V ERJ-3GEY0R00V	DIGIKEY DIGIKEY	P0.0GTR-ND P0.0GTR-ND	RoHS Compliant RoHS Compliant RoHS Compliant RoHS Compliant	Avail: Avail:		PART
10 0	-SPARE-	-SPARE- LOCATIO R2, R3	ON DO NOT INSTALL						PART



KEY						
CR: Cross CS: Consign PL: Pack List	D: Drawing B: BOM LBL: Label Q: Quality Check					

ASSEMBLY NUMBER: 02-01863-01 REV: 2

ASSEMBLY NAME: PCB ASSY, PIC24F 100P TO 100P QFP PLUG IN MODULE

Qt	v Part Number	Rev	Description	1		Manufacturer	Vendor / Part No	C C R S	
1 1	02-01863-D	5 PCB ASSY DWG	, 100P TO 100P QFP PLUG IN MOI						D
2 1	03-01863	5 SCHEMATIC, PIG	C24 100P TO 100P QFP PLUG IN M	10DULE					D
3 1	04-01863	5 PCB FABRICATION	ON, PIC24 100P TO 100P QFP PLU	IG IN MODULE					D
4 1	08-00308	1 LABEL, PRODUC	CT NUMBER, ASSEMBLY NUMBER in side of board	W/ REVISION	(SMALL)				LBL
5 1	MIC0409	IC SMT, PIC24FJ U1 MICROCHIP	128GA010 100P TQFP (14x14) PIC24FJ128GA010-I/PF		YGAH17E5XAXF	✓ RoHS Compliant	Avail:	Y	PART
6 4	CON0181		1x25 0.050" (1.27mm) HIGH PROFIL	_E, STRAIGHT,		V Norts compliant	Avaii.		PART
ļ		SAMTEC	SMS-125-01-G-S			✓ RoHS Compliant	Avail:		
7 7	CAP0011	CAP SMT, 0.1uF C1, C2, C3, C4	0603 CER 16V 10% X7R I, C5, C7, C8						PART
		TAIYO YUDEN	EMK107B7104KA-T	DIGIKEY	587-1240-2-ND	▼ RoHS Compliant	Avail:		
		TAIYO YUDEN	EMK107B7104KA-T	NEWARK	86H5248	✓ RoHS Compliant	Avail:		
		PANASONIC	ECJ-1VB1C104K	DIGIKEY	PCC1762TR-ND	▼ RoHS Compliant	Avail:		
		NIC COMPONE	N NMC0603X7R104K16TRPF			✓ RoHS Compliant	Avail:		
		CAL-CHIP	GMC10X7R104K16NTLF			✓ RoHS Compliant	Avail:		
		YAGEO	06032R104K7B20D	DIGIKEY	311-1088-1-ND	▼ RoHS Compliant	Avail:		
8 1	CAP0171	C6	0805 CER 16V 10% X7R						PART
		KEMET	C0805C105K4RAC			RoHS Compliant			
		KEMET	C0805C105K4RACTU	DIGIKEY	399-1284-2-ND	✓ RoHS Compliant	Avail:		
		SAMSUNG	CL21B105KONE			RoHS Compliant	Avail:		



KEY						
CR: Cross CS: Consign PL: Pack List	D: Drawing B: BOM LBL: Label Q: Quality Check					

ASSEMBLY NUMBER: 02-01863-01 REV: 2

ASSEMBLY NAME: PCB ASSY, PIC24F 100P TO 100P QFP PLUG IN MODULE

								CC	<i>;</i> P	
Qty	Part Number	Rev	Desc	ription		Manufacturer	Vendor / Part No	R S	i L	Type
9 1	RSMT0001	RES SMT, 0-OHM	0603							PART
		R1								
		SEI (STACKPOL	RMCF 1/16 0 5% R			✓ RoHS Compliant	Avail:			
		PANASONIC	ERJ-3GEY0R00V	DIGIKEY	P0.0GTR-ND	▼ RoHS Compliant	Avail:			
"		PANASONIC	ERJ-3GSY0R00V	DIGIKEY	P0.0GTR-ND	▼ RoHS Compliant	Avail:			
		NIC COMPONEN	NRC06Z0TRF			▼ RoHS Compliant	Avail:			
10 0	-SPARE-	-SPARE- LOCATIO	N DO NOT INSTALL							PART
		R2, R3								



ASSEMBLY NUMBER: 14-00723 REV: 7 Product No: DM240001
ASSEMBLY NAME: PRODUCT TREE, EXPLORER 16 DEVELOPMENT BOARD

**Pack List** 

11-00244	ASSY, E	XPLORER 16 & 100P PIMS	Rev:	2
	Qty	Part Number	Description	
	1	02-01863-02	PCB ASSY, dsPIC33 GP 100P TO 100P QFP PLUG IN MO	ODULE
1 02-01863-01 PCB ASSY, PIC24F 100P TO 100P QFP PLUG IN MODULE				
	1	02-01872	PCB ASSY, EXPLORER 16 DEVELOPMENT BOARD	
12-00723	FINAL A	SSY, EXPLORER 16 DEVEL	OPMENT BOARD Rev:	7
	Qty	Part Number	Description	
	1	DS51588	SOFTWARE, EXPLORER 16 DEVELOPMENT KIT	
	1	CAB0003	CABLE, RS-232 DATA CABLE, DB9 M/F SHIELDED 6 FT	
	1	DS30210	DOC, "IMPORTANT INFORMATION" MICROCHIP INFOR	MATION
	1	DS30030	DOC, WARRANTY/REGISTRATION CARD	













