

Bill of Materials

TI DESIGNS

TI Designs # TIDM-INDUSTRIAL-PLC
PLC Docking Station BOM

Module	Res.	Value	Digikey Part #	Mouser Part #	Newark Part #	Other Distributor
PLC Dock	C1	100uF	493-3284-nd			
PLC Dock	C10	100n	PCC1812CT-ND			
PLC Dock	C11	10n	399-4669-1-ND			
PLC Dock	C12	330n	490-3294-1-ND			
PLC Dock	C13	0.47u	EF4474-ND			
PLC Dock	C14	100n	pcc1828ct-nd			
PLC Dock	C15	100n	pcc1828ct-nd			
PLC Dock	C16	4u7F	digikey EF2475-ND			
PLC Dock	C2	10uF	490-3382-1-ND			
PLC Dock	C3	100n	pcc1828ct-nd			
PLC Dock	C4	10uF	490-3382-1-ND			
PLC Dock	C40	100n	pcc1828ct-nd			
PLC Dock	C41	100n	pcc1828ct-nd			
PLC Dock	C42	100n	pcc1828ct-nd			
PLC Dock	C43	100n	pcc1828ct-nd			
PLC Dock	C44	100n	pcc1828ct-nd			
PLC Dock	C45	100n	pcc1828ct-nd			
PLC Dock	C46	100n	pcc1828ct-nd			
PLC Dock	C5	100n	pcc1828ct-nd			
PLC Dock	C6	2u2	399-3084-1-ND			
PLC Dock	C7	2u2	399-3084-1-ND			
PLC Dock	C8	2u2	399-3084-1-ND			
PLC Dock	C9	100uF	511-1498-1-ND			
PLC Dock	D1	BZV55-C5V6	568-3797-1-ND			
PLC Dock	D2	PMLL4148L	568-1749-1-ND	500 07000 1001		
PLC Dock	J1	100 pin DIMM socket - Molex 0876301001	14/440500 AID	538-87630-1001		
PLC Dock	J10	Standard 0.1" SIL headers, 2 position	WM6536-ND			
PLC Dock	J12	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J13	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J14	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J15	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J16	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J17	Standard 0.1" SIL headers, cut to fit	WM6536-ND			
PLC Dock	J18	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J19	Standard 0.1" SIL headers, 3 position	WM6536-ND			
PLC Dock	J2	db9	A35105-ND			

PLC Dock	J20	Standard 0.1" SIL headers, 3 position	WM6536-ND	1
PLC Dock	J21	Standard 0.1" SIL headers, 3 position	WM6536-ND	
PLC Dock	J22	Standard 0.1" SIL headers, 3 position	WM6536-ND	
PLC Dock	J23	Standard 0.1" DIL headers, 4 position 2x2		
PLC Dock	J24	Standard 0.1" DIL headers, 8 position,2x4		
PLC Dock	J25	Standard 0.1" DIL headers, 4 position 2x2		
PLC Dock	J3	Standard 0.1" SIL headers, 3 position	WM6536-ND	
PLC Dock	J5	Standard 0.1" SIL headers, 5 position Standard 0.1" SIL headers, cut to fit	WM6536-ND	
PLC Dock	J6	Standard 0.1" DIL headers, 4 position 2x2	WWW.COCC IVE	
PLC Dock	J7	Standard 0.1" DIL headers, 8 position,2x4		
PLC Dock	J8	Standard 0.1" SIL headers, 2 position	WM6536-ND	
PLC Dock	J9	do not populate		
PLC Dock	JP1	DC jack	PJ-002AH	
PLC Dock	L1	BEAD		2773037447
PLC Dock	L2	BEAD		2773037447
PLC Dock	L3	3u8H	513-1395-1-ND	
PLC Dock	L4	600nH	PCD2022TR-ND	
PLC Dock	L5	15uH (DR1040-150-R)	513-1400-1-ND	
PLC Dock	L6	47uH	513-1403-2-ND	
PLC Dock	LD1	LED	404-1021-1-nd	
PLC Dock	LD4	LED	404-1021-1-nd	
PLC Dock	LD5	LED	404-1021-1-nd	
PLC Dock	M2	DNP		
PLC Dock	M3	Standard 0.1" SIL headers, cut to fit	WM6536-ND	
PLC Dock	PM1	PTH08080	296-20432-ND	
PLC Dock	Q1	BC817-40LT1G	BC817-40LT1GOSCT-ND	
PLC Dock	R1	330R	p330ACT-nd	
PLC Dock	R13	0R	P0.0ACT-ND	
PLC Dock	R14	NoPop*		
PLC Dock	R15	NoPop*		
PLC Dock	R16	1M	p1.0mact-nd	400 04 04 T 4000 F) //
PLC Dock	R18	0R	P0.0ACT-ND	108-2AS1T1203-EVX
PLC Dock PLC Dock	R19 R2	1K0 470R	P1.00KCCT-ND	
PLC Dock	R20	1K0	rhm470crct-nd P1.00KCCT-ND	
PLC Dock	R20 R21	1K0, NO POP	F I.OUNGG I - ND	
PLC Dock	R22	1K0, NO POP		
PLC Dock	R23	100K	P100KECT-ND	
PLC Dock	R24	100K	P100KECT-ND	
PLC Dock	R25	100K	P100KECT-ND	
PLC Dock	R26	270R	311-270GRCT-ND]
PLC Dock	R27	240K	P240KGCT-ND	1
PLC Dock	R28	5K	311-5.1KARCT-ND	
LEC DOCK	R∠ŏ	JN	311-3.1KAKCI-ND	I

PLC Dock	R29	5K	311-5.1KARCT-ND		I
PLC Dock	R3	0R	P0.0ACT-ND		
PLC Dock	R30	1K5	311-1.5KARCT-ND		
PLC Dock	R31	OR .	P0.0ACT-ND		
PLC Dock	R32	OR	P0.0ACT-ND		
PLC Dock	R33	1K	P1.00KCCT-ND		
PLC Dock	R34	1K	P1.00KCCT-ND		
PLC Dock	R35	1K	P1.00KCCT-ND		
PLC Dock	R4	NoPop*	F 1.00RCCT-ND		
PLC Dock	R5	4R7	P4.7BCT-ND		
PLC Dock	R6	3K0	P3.0KACT-ND		
PLC Dock	R7	680R	311-680CRCT-ND		
PLC Dock	R8	680R	311-680CRCT-ND		
PLC Dock	R9	1K0	P1.00KCCT-ND		
PLC Dock	SW1	SPDT	F1.00RCCT-ND	108-2AS1T1203-EVX	
PLC Dock	T1	AF5277A 083110, No POP		106-2A3111203-EVA	
PLC Dock	T2	AF5277A_063110, NO POP AF5112			AF5112
PLC Dock	TB1		Q218-nd		AFSTIZ
PLC Dock	U1	Power plug ISO7221	296-21955-1	595-ISO7221ADR	
				595-1507221ADR	
PLC Dock	U2 U3	MAX3221	296-19825-1-ND		
PLC Dock	U4	TPS79533	296-13810-1		
PLC Dock		AT24C1024B	AT24C1024B-TH-B-ND		
PLC Dock	U5	SN74LVC2G07	digikey 296-13494-1-ND		
PLC Dock	U6	AT24C1024B, DO NOT POP			
PLC Dock	U7	FOD817BSD		512-FOD817BSD	
PLC Dock	U8	SN74LVC1G57	296-15574-1-ND		
PLC Dock	Z1	DO-214AB	497-6488-1-ND		
jtag-usb	C4	Cer. Cap - 1u, 6.3V, X5R, 0603	490-1550-1-ND		
jtag-usb	C5	Cer. Cap - 1u, 6.3V, X5R, 0603	490-1550-1-ND		
jtag-usb	C6	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	C7	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	C8	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	C9	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	C10	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	C11	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	C12	Cer. Cap - 100n, 10V, X5R, 0603	399-1095-1-ND		
jtag-usb	DA1	Diode*4 array	BAW567DW-FDICT-ND		
jtag-usb	J1	standard 0.1" pin (SIL) headers cut to length	490-3335-1-ND		
jtag-usb	J3	standard 0.1" pin (SIL) headers cut to length	490-3335-1-ND		
jtag-usb	J4	standard 0.1" pin (SIL) headers cut to length	490-3335-1-ND		
jtag-usb	J5	standard 0.1" pin (SIL) headers cut to length	490-3335-1-ND		
jtag-usb	J2	standard 0.1" pin (DIL) header (note remove pin 6)	587-1375-1-ND		
jtag-usb	JP1	USB-TypeB receptacle	ED90064-ND		
jtag-usb	L1	Inductor 22uH SMD, 0805	490-4030-1		
jtag-usb	R1	Res 470R, 5%, 0.1W, 0603	RHM470GCT-ND		
jtag-usb	R2	Res 27R, 5%, 0.1W, 0603	RHM27GCT-ND		
Jiay-usb	NZ	NGS 21 N, 3%, U.TVV, UOUS	INT IIVIZ/GCT-IND		

jtag-usb	R3	Res 27R, 5%, 0.1W, 0603	RHM27GCT-ND	
jtag-usb	R4	Res 2K2, 5%, 0.1W, 0603	P2.2KGCT-ND	
jtag-usb	R6	Res 2K2, 5%, 0.1W, 0603	P2.2KGCT-ND	
jtag-usb	R5	Res 1M, 1%, 0.1W, 0603	RHM1.0MGCT-ND	
jtag-usb	R7	Res 10K, 5%, 0.1W, 0603	P10KGCT-nd	
jtag-usb	R8	Res 1K, 5%, 0.1W, 0603	RHM1.0KGCT-ND	
jtag-usb	R9	Res 2K7, 5%, 0.1W, 0603	RHM2.7KGCT-ND	
jtag-usb	R10	Res 2K7, 5%, 0.1W, 0603	RHM2.7KGCT-ND	
jtag-usb	R13	Res 47K, 5%, 0.1W, 0603	RHM47KGCT-ND	
jtag-usb	R14	Res 2K0, 5%, 0.1W, 0603	RHM2.0KGCT-ND	
jtag-usb	U1	FT2232D - USB to Serial, Dual port	768-1010-1-ND	
jtag-usb	U2	Serial EEPROM - 93LC46B - SOT23-6	93LC46BT-I/OTCT-ND	
jtag-usb	U3	D-FlipFlop - SN74LVC2G7	296-13273-1-ND	
jtag-usb	X1	Resonator - 6MHz	490-1218-1-ND	

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TI DESIGNS
TI DESIGNS # TIDM-INDUSTRIAL-PLC
AFE031 Module BOM

tem Number	Quantity Part Number		Part Reference	Vendor	Vendor PN		Value	PCB Footprint	Tolerance	Voltage	Distributo	Distributor Part Numb
1	1 300-00032	CAP	C13			Cap Ceramic SMT 04		C0402	0			
2	1 300-00014	CAP	C14			Cap Ceramic SMT 04		C0402	0	10V		
3		CAP	C15			Cap Ceramic SMT 04		C0402	0			
4	3 300-00013	CAP	C16 C24 C86			Cap Ceramic SMT 04		C0402	0	10V		
5	1 100-00108	CAP	C17	KEMET	C0402C104K4RACTU	Capacitor, 0.1UF, X7F	0.1UF	C0402	0.1	16V		
6	1 300-00015	CAP	C18			Cap Ceramic SMT 04		C0402	0	10V		
7	1 300-00031	CAP	C19			Cap Ceramic SMT 04		C0402	0			
8	1 300-00028	CAP	C25			Cap Ceramic SMT 04		C0402	0			
9	1 300-00026	CAP	C26			Cap Ceramic SMT 04		C0402	0			
10		CAP			GMK316F106ZL-T	Cap Ceramic SMT 12		C1206	0	35V	digikey	587-1352-1-ND
11	4 300-00041	CAP	C65 C67 C69 C7		GRM155F51E104ZA01D	CAP CER .1UF (100)		C0402	0	25V		490-3271-1-ND
12	4 300-00044	CAP	C66 C87 C88 C8		GRM155R61A104KA01D	CAP CER .1UF 10V	0.1uf	C0402	0	10V	digikey	490-1318-1-ND
13	2 300-00042	CAP	C73 C74	TDK	C5750Y5V1E476Z	CAP CER 47UF 25V	47uf	C2220	0	25V	digikey	445-3486-2-ND
14	1 300-00033	CAP	C78			Cap Ceramic SMT 06	910pf	C0603	0			
15		CAP	C79			Cap Ceramic SMT 06	300pf	C0603	0			
16	3 100-00107	CAP	C81 C82 C83	TI	CAP_0603_DNP	Capacitor, DNP, 0603	DNP	C0603	0			
17	1 300-00035	CAP	C84	Murata	GRM188R71H104KA93D	Cap Ceramic SMT 06	100nF	C0603	0	50V	digikey	490-1519-1-ND
18	1 300-00038	CAP	C85	PANASONIC	ECH-U1H332JX5	CAP .0033UF 50V PI	3n3F	C1206	0	50V	digikey	PCF1334CT-ND
19	1 200-00002	FET_DIODE	D1	Stanley	BR1112H-TR	DIODE, 0.54 VF, 80 A	LED_RED	LED0805	0			
20	2 320-00006	CONN	J2 J3			12 pin 100mill standa	SILH-12	HDR_1x12_100MII	. 0			
21	5 320-00008	CONN	J4 J6 J7 J8 J9			3 pin 100mill standard	SILH-3	HDR_1x3_100MILI	. 0			
22	1 330-00013	MAGNETICS	L1	Taiyo Yuden	LB3218T1R0M	INDUCTOR 1.0UH 1	LB 3218T	1 IND1207	0		Digikey	587-2032-1
23	1 330-00009	MAGNETICS	L2	Panasonic -	I ELJ-EA331KF	INDUCTOR 330UH 1	330uH	IND1210	0		Digikey	PCD1432CT
24	1 330-00012	MAGNETICS	L3	Taiyo Yuden	CB2518T471K	INDUCTOR POWER	470uH	IND1007	0		Digikey	587-2194-1
25	1 490-00001	Heat_Sink	P1	AAVID	573400D00000G	AAVID heat sink for (HS	custom	0		mouser	
26	3 310-00029	RES	R2 R3 R51			Resistors, 0R, 5% - §	0R	R0402	0			
27	1 310-00055	RES	R23			Resistor 2K67 5% - \$		R0402	0			
28	1 310-00057	RES	R24			Resistor 3K3 5% - SI	3K3	R0402	0			
29	1 310-00048	RES	R25			Resistor 1K47 5% - \$	1K47	R0402	0			
30	1 310-00052	RES	R26			Resistor 15K 5% - SI		R0402	0			
31	2 310-00059	RES	R28 R30			Resistor 30K 5% - SI		R0402	0			
32	1 310-00061	RES	R31			Resistor 6K8 5% - SI	6K8	R0402	0			
33		RES	R36 R37			Resistor 150R 5% - \$		R0402	0			
34	7 310-00049	RES	R71 R72 R73 R7			Resistor 10K 5% - SI		R0402	0			
35		RES	R79 R82	vishay	CRCW0402330RJNED	RES 330 OHM 1/16V		R0402	0		digikey	541-330JCT-ND
36		RES	R80 R81	Panasonic	ERJ-3GEYJ104V	RESISTOR, 100K, 0.		R0603	0.05	0.1W		
37	6 280-00005		T TP2 TP4 TP5 TP		5015	PC TEST POINT MIN			0			
38		FET DIODE		Diodes Inc	B350A-13-F	DIODE SCHOTTKY:			0		digikey	B350A-FDICT-ND
39			U10 U12		STPS1L40A	DIODE SCHOTTKY			0			497-3753-1-ND
40	1 402-00028	IC	U17	TI	AFE031	AFE031 TI PLC Intec		RGZ	0		aginoy	5/00 / 110
41	1 400-00007	FET DIODE	U19	On Semi	1SMB5931BT3	DIODE ZENER 3W 1		DO-214AA	0		Digikey	1SMB5931BT3GOSC
42		IC	U20	TI	OPA2365	IC, dual, High-Speed			0		z igino,	



Bill of Materials

TI DESIGNS

TI Designs # TIDM-INDUSTRIAL-PLC cC-F2803x (Piccolo-B) BOM - R1

Item	Description	Digikey Part #	Comments
U1	F28035 (TI) SMD (LQFP-80)		Texas Instruments
C1, C14, C22-C29	CAP ceramic 100n X5R, SMD 0603 (decoupling)		rexas instruments
C1, C14, C22-C29 C2-C9	CAP ceramic 3300p X7R, SMD 0603 (decoupling)		
C10-C12, C19-C21	CAP ceramic 2300p X7R, SMD 0003		
C13	CAP Tant 47u 10V SMD (3216-12)	511-1500-2	
C15	CAP ceramic 10u X5R, SMD 0603	311-1300-2	
C16, C18	CAP ceramic 10 X7R, SMD 0603		
C17	CAP ceramic 0.01u X7R, SMD 0603		
L1, L2	Inductor 60Ω impedence, 100MHz, SMD 0805	587-1932-1-ND	
L3, L4	Inductor 220Ω impedence, 100MHz, SMD 0805	490-1054-1-ND	
20, 24	madotor 22032 impedence, roominz, omb oooc	400 1004 1 110	
R1, R13	Resistors 2K2, 5% - SMD, 0603		
R2, R5,R6	Resistors 0R, 5% - SMD, 0805		
R3, R7, R8	Resistors 680R, 5% - SMD, 0603		
R4	Do NOT populate - SMD, 0805		
R9, R10	Resistors 3K3, 5% - SMD, 0603		
R11, R12	Resistors 820R, 5% - SMD, 0603		
RN1, RN2	Resistor network 56R 5%	Y1560CT	
RN3	Resistor network 33R 5%	Y1330CT	
X1	Do NOT populate - SMD		
LD1	LED SMD 0805 - Green	404-1021-1	
LD2,LD3	LEDs SMD 0805 - Red	404-1017-1	
U2, U3	Diodes, clamping, NUP4201MR6 TSOP-6	NUP4201MR6T1GOSTR	
U4	TPS73033 (TI) - SOT23-5	296-2652-5	
U6	ISO7221CDR	296-21955-1	
U5	MAX3221 (TI)	296-19825-2	
U7	SN74LVC2G07 (TI)	296-13494-2	
SW1	CHS-01TB	563-1004-1-ND	
SW2	CT2182LPST	CT2182LPST-ND	

SW3 CAS-D20TA - 2xSPDT CASD20JCT-ND

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