

Project (Code)	ARW_NXP (R17P10R1D2)	PCB ID / Rev.	PCBR17P10 - R1.2
Notes			

n.	Manufacturer	Manufacturer P/N	Footprint	Description	Value	Proj. Reference	pcs/unit	PRODUCTION
1		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	10uF	C1, C5, C6, C59, C74, C79, C8	13	Fitted
2		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	100nF	C2, C3, C21, C31, C33, C41, C	40	Fitted
3		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	22uF	C4	1	Fitted
4		CAP_CER	CAP_CER_0402L(1005mm)	Ceramic Capacitor (Surface Mount)	100nF	C7, C8, C9, C10, C11, C12, C1	10	Fitted
5		CAP_CER	CAP_CER_0402L(1005mm)	Ceramic Capacitor (Surface Mount)	10nF	C17	1	Fitted
6		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	18pF	C18, C19, C69, C70, C71, C72	6	Fitted
7		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	12pF	C20, C22, C34, C35	4	Fitted
8		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	10nF	C23, C24, C25, C26, C27, C28	11	Fitted
9		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	1uF	C30, C32, C68, C86, C103, C1	7	Fitted
10		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	1uF 10V	C37	1	Fitted
11		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	2.2uF 25V	C38	1	Fitted
12		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	10uF 25V	C39	1	Fitted
13		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	2.7pF	C40	1	Fitted
14		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	2.2pF	C42	1	Fitted
15		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	2.2uF 10V	C43, C48	2	Fitted
16		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	2.2uF 16V	C44	1	Fitted
17		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	22uF 10V	C45	1	Fitted
18		CAP_CER	CAP_CER_1206L(3216mm)	Ceramic Capacitor (Surface Mount)	4.7uF 50V	C46, C47	2	Fitted
19		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	47pF	C50, C93, C102	3	Fitted
20		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	100pF	C51	1	Fitted
21		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	1nF	C57, C58, C94, C130	4	Fitted
22		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	470pF	C67	1	Fitted
23		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	4.7uF	C77, C78, C110, C117, C158,	6	Fitted
24		CAP_POL	CAP_POL_1206L(3216mm)	Polarized Capacitor (Surface Mount)	100uF	C87	1	Fitted
25		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	24pF	C92, C107	2	Fitted
26		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	56pF	C95, C99	2	Fitted
27		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	180pF	C96, C100	2	Fitted
28		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	15pF	C97, C101	2	Fitted
29		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	68pF	C98, C108	2	Fitted
30		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	470nF	C80, C104, C105, C106	4	Fitted
31		CAP_CER	CAP_CER_0603L(1608mm)	Ceramic Capacitor (Surface Mount)	27pF	C163, C164	2	Fitted
32	Wurth	61301011821	CON_FEM_WRT_61301011821	WR-PHD 2.54 mm Socket Header		J2	1	Fitted
33	Wurth	61300811821	CON_FEM_WRT_61300811821	WR-PHD 2.54 mm Socket Header		J3, J6	2	Fitted
34	Wurth	61300211121	CON_MAL_WRT_61300211121	WR-PHD 2.54mm Pin Header		J5, J8, J9, J10, J11, J17, J18, J	10	Fitted
35	Wurth	61300611821	CON_FEM_WRT_61300611821	WR-PHD 2.54 mm Socket Header		J7	1	Fitted
36	Wurth	61300311121	CON_MAL_WRT_61300311121	WR-PHD 2.54mm Pin Header		J24	1	Fitted
37		SMD Chip Led Diode Green	OPT_LED_0603_GREEN	SMD Chip Led Diode Green		LED1	1	Fitted
38		SMD Chip Led Diode Red	OPT_LED_0603_RED	SMD Chip Led Diode Red		LED2, LED5, LED6	3	Fitted
39		SMD Chip Led Diode Blue	OPT_LED_0603_BLUE	SMD Chip Led Diode Blue		LED3	1	Fitted
40		SMD Chip Led Diode Yellow	OPT_LED_0603_YLW	SMD Chip Led Diode Yellow		LED4	1	Fitted
41		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	470R	R1, R23, R71, R72, R118, R11	6	Fitted
42		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	2.2k	R2, R3, R4, R73, R74	5	Fitted
43		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	100K	R5, R22, R24, R33, R79, R103	14	Fitted
44		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	22R	R6, R7, R8, R9, R10, R11, R12	16	Fitted
45		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	47K	R25, R26, R27, R28, R29, R30	12	Fitted
46		RES	RES_0805N(2012mm)	Resistor (Surface Mount)	ORO	R34, R35, R36, R121, R122, R	14	Fitted
47		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	ORO	R37, R38, R66, R75, R76, R77	39	Fitted
48		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	ORO DNP	R39, R40, R167, R170, R172,	6	Not fitted
49		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	200K	R41	1	Fitted
50		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	OR	R42, R132	2	Fitted

51		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	OR DNP	R43, R133	2	Not fitted
52		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	649K 1%	R44	1	Fitted
53		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	3.6K 1%	R45	1	Fitted
54		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	1.07M 1%	R46	1	Fitted
55		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	820K 1%	R47	1	Fitted
56		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	53.6K	R48	1	Fitted
57		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	DNP	R49, R80, R84, R85, R90, R97	19	Not fitted
58		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	14.7K	R50	1	Fitted
59		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	3K	R51	1	Fitted
60		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	10K	R52, R54, R55, R83, R86, R89	36	Fitted
61		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	107K	R53	1	Fitted
62		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	60R4	R56, R57, R58, R59	4	Fitted
63		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	1.5K	R60	1	Fitted
64		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	49R9	R61, R62, R63, R64	4	Fitted
65		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	33R	R65	1	Fitted
66		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	12.1K	R67, R70, R78	3	Fitted
67		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	1K	R68, R69, R112, R115, R116,	6	Fitted
68		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	270k 1%	R81	1	Fitted
69		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	150k 1%	R82	1	Fitted
70		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	4.7K	R87	1	Fitted
71		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	22K	R91, R96	2	Fitted
72		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	3R3	R92, R93, R94, R95	4	Fitted
73		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	680R	R113	1	Fitted
74		RES	RES_0805L(2012mm)	Resistor (Surface Mount)	0R0	R126	1	Fitted
75		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	30K	R152	1	Fitted
76		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	2.4M	R153, R158	2	Fitted
77		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	150K	R159	1	Fitted
78		RES	RES_0603L(1608mm)	Resistor (Surface Mount)	1Meg	R214	1	Fitted
79	Harwin	S8211-46R	CON_PWR_HRW_S8211-46R_reduced_contact	HOLDER COIN CELL 20MM SMD		B1	1	Fitted
80	NXP	PMEG3010ER	DIS_SOD123W_NXP	DIODE SCHOTTKY 30V 1A SOD123W		D1, D2, D3	3	Fitted
81	NXP	BAT54C,215	DIS_SOT23_NXP	Schottky barrier diode BAT54C 0.2A 30V		D4, D10	2	Fitted
82	NXP	PMEG2005EB	DIS_SOD523_NXP	Surface Mount SCHOTTKY Barrier Diode		D5, D6, D8, D9	4	Fitted
83	Diodes Inc	SBR1A40S3-7	DIS_DIO_DIO_SBR1A40S3-7	40 V 1 A Super Barrier Rectifier Surface Mount - SOD-323		D7	1	Fitted
84	Murata	BLM21AG601SN1D	IND_0805L(2009mm)	Inductor Ferrite Cored (Surface Mount)	600R	FB1, FB10	2	Fitted
85	Murata	BLM18AG221SN1D	IND_0603L(1608mm)	Inductor Ferrite Cored (Surface Mount)	220R	FB2, FB3, FB4, FB5, FB6, FB7	6	Fitted
86	Switchcraft	RAPC722X	CON_PWR_SWI_RAPC722X	Switchcraft RAPC722X		J1	1	Fitted
87	FCI	20021121-00010C4LF	CON_DBG_FCI_20021121-00010C4LF	CONN HEADER 10POS DL UNSHRD SMD		J4, J21, J26	3	Fitted
88	Wurth	693071010811	CON_SDC_WRT_693071010811	WR-CRD Micro SD_Push and Push		J12	1	Fitted
89	TE	1-969973-2	CON_FEM_TE_1-969973-2	CONN RCPT DUAL ENTRY 24POS .100"		J13, J32	2	Fitted
90	Hirose	ZX62-AB-5PA(31)	CON_USB_HRS_ZX62-AB-5PA(31)	Micro USB SMT Type AB		J14, J15	2	Fitted
91	Wago	2604-1102	CON_TB_WAG_2604-1102			J16, J31	2	Fitted
92	FCI	20021121-00010C4LF	CON_DBG_FCI_20021121-00010C4LF	CONN HEADER 10POS DL UNSHRD SMD	DNP	J22	1	Not fitted
93	Wurth	61300511121	CON_MAL_WRT_61300511121	WR-PHD 2.54 mm THT Pin Header, 5p	DNP	J25, J29	2	Not fitted
94	Wurth	613012243121	CON_FEM_WRT_613012243121	WR-PHD 2.54 mm Angled Dual Socket Header, 12p		J27, J28	2	Fitted
95	Laird	TYS3015100M-10	PAS_IND_LRD_TYS3015100M-10	PWRIND,SMT,UNSHLD,IRATED / 3.0X3.0X1.5MM	10uH	L1, L3	2	Fitted
96	Laird	TYS3015150M-10	PAS_IND_LRD_TYS3015150M-10	PWRIND,SMT,UNSHLD,IRATED / 3.0X3.0X1.5MM	15uH	L2	1	Fitted
97	Laird	TYS3015220M-10	PAS_IND_LRD_TYS3015220M-10	PWRIND,SMT,UNSHLD,IRATED / 3.0X3.0X1.5MM	22uH	L4, L5	2	Fitted
98	TE	36502A22NJTDG	IND_0805L(2009mm)	Inductor (Surface Mount)	22nH	L6	1	Fitted
99	TDK	MLZ2012DR47DT	IND_0805L(2009mm)	Inductor (Surface Mount)	470nH	L7, L8	2	Fitted
100	NXP	B5S138P,215	DIS_SOT23_NXP	MOSFET N-CH 60V 360MA TO-236AB		Q1, Q3, Q4	3	Fitted
101	NXP	PMV48XP,215	DIS_SOT23_NXP	MOSFET, P CHANNEL, 20V, 3.5A, SOT23		Q2	1	Fitted
102	C&K Components	SDA03H15BD	EMC_SWI_CEK_SDA03H15BD	Switch DIP OFF ON SPST 3 Raised Slide 0.1A 24VDC Gull Wing 1000Cycles 2.54"		S1	1	Fitted
103	Wurth	434121025816	EMC_BUT_WRT_434121025816	WS-TASV SMD Tact Switch 6.0X3.8 mm		SW1, SW2, SW3, SW4	4	Fitted
104	Pulse	J0011D01BNL	CON_ETH_PLS_J0011D01BNL	RJ45 LAN Transformer, 10/100 Base-T		T1	1	Fitted
105	NXP	NX5P3090UKZ	IC_POV_PSW_NXP_NX5P3090UKZ	USB Power SW Single 2.5V to 5.5V 0.4A to 3.3A 12-Pin WLSCP		U1, U15, U39	3	Fitted
106	NXP	LPC54618J512BD208	IC_MIC_NXP_LPC54618J512BD208	32-bit ARM Cortex-M4 microcontroller		U2	1	Fitted
107	Micron	MT48LC8M16A2P-6A	IC_MEM_RAM_MIC_MT48LC8M16A2P-6A	DRAM Chip SDR SDRAM 128M-Bit 8Mx16 3.3V 54-Pin TSSOP-II		U3	1	Fitted
108	NXP	IP4252CZ16-8-TTL,1	PAS_ARR_NXP_IP4252CZ16-8-TTL,1	IP4252CZ16 Series 8 Channel 12 pF RC Low Pass Filter Network Array		U4	1	Fitted
109	Winbond	W25Q128VSIQ	IC_MEM_FSH_WNB_W25Q128VSIQ	NOR Flash Serial (SPI, Dual SPI, Quad SPI) 3V/3.3V 128M-bit 16M x 8 6ns 8-Pin		U5	1	Fitted
110	Linear	LT3587EUD	IC_POW_CNBL_LIN_LT3587EUD	High Voltage Monolithic Inverter and Dual Boost		U7	1	Fitted

111	Linear	LT3598EFE	IC_POW_LED_LIN_LT3598EFE	LT3598 - 6-String 30mA LED Driver with ±1.5% Current Matching		U8	1	Fitted
112	NXP	TJA1059TKJ	IC_DIG_CAN_NXP_TJA1059TKJ	BL Advanced Automotive Analog / Dual high-speed CAN transceiver with Standby		U9	1	Fitted
113	Rigado	R41Z-TA-R	MOD_THR_RGD_R41Z-TA-R	Thread (802.15.4) + BLE 4.2 Module, SoC KW41Z, 512kB Flash, 128kB SRAM		U10	1	Fitted
114	Microchip	LAN8720A-CP	IC_DIG_ETH_MCP_LAN8720A	LAN8720A Series 3.3 V RMII 10/100 Ethernet Transceiver SMT T&R - QFN-24		U11	1	Fitted
115	NXP	PRTR5V0U2X	DIS_TVS_NXP_PRTR5V0U2X			U12, U13	2	Fitted
116	Microchip	MCP6H01T-E/OT	DIS_OPA_MCP_MCP6H01T-E/OT	General Purpose Amplifier 1 Circuit Rail-to-Rail TSOT-23-5		U14	1	Fitted
117	Silex	SX-ULPGN-2000	MOD_WFI_SLX_SX-ULPGN-2000	Module 802.11b/g/n 2.472GHz 11000Kbps 46-Pin		U16	1	Fitted
118	NXP	CLRC66303HNE	IC_RF_NXP_CLRC66303HNE	IC NFC CONTACTLESS TXRX 32HVQFN		U17	1	Fitted
119	NXP	A1006AUK4	IC_DIG_AUT_NXP_A1006AUK4	Secure Authenticator IC		U18	1	Fitted
120	NXP	FXLS8471QR1	IC_SEN_MOT_NXP_FXLS8471QR1	Accelerometer Triple Axis ±2g/±4g/±8g 1.95V to 3.6V 4096LSB/g/2048LSB/g/1024LSB/g		U19	1	Fitted
121	NXP	FXAS21002CQR1	IC_SEN_MOT_NXP_FXAS21002CQR1	Gyroscopes Triple Axis ±2000°/s 24-Pin QFN		U20	1	Fitted
122	NXP	FXLN8361QR1	IC_SEN_MOT_NXP_FXLN8361QR1	MEMS Accelerometer, Analog-Output, Analogue, X, Y, Z, 8g, QFN, 3.6 V, 1.7		U21	1	Fitted
123	NXP	FXPQ3115BV	IC_SEN_ENV_NXP_FXPQ3115BV	XTRINSIC PRESSURE SENSOR, 2.5V, 20/110KPA, LGA 8		U22	1	Fitted
124	NXP	PCT2075GV	IC_SEN_ENV_NXP_PCT2075GV	PCT2075 Series 2.7 to 5.5V Temperature Sensor Surface Mount - TSOP-6		U23	1	Fitted
125	AMS	TSL2571FN	IC_SEN_ENV_AMS_TSL2571	Light Sensor		U24	1	Fitted
126	NXP	PCF85063ATT	IC_DIG_RTC_NXP_PCF85063ATT	Tiny Real-Time Clock/calendar with alarm function and I <sup>2</sup> C-bus FavoriteE		U25	1	Fitted
127	Diodes Inc	AP2114H-3.3TRG1	IC_POW_LDO_DIO_AP2114H-3.3TRG1	Linear Voltage Regulator IC Positive Fixed 1 Output 3.3V 1A SOT-223		U26	1	Fitted
128	Apple	MFI33753959	IC_DIG_AUT_APL_MFI33753959	Apple MFi security chip	DNP	U27	1	Not fitted
129	Abracon	ABM8-12.000MHZ-B2-T	PAS_XTL_ABR_ABM8-12.000MHZ-B2-T	ABM8 12 MHz Crystal Oscillator		Y1	1	Fitted
130	Abracon	ABS07-32.768KHZ-T	PAS_XTL_ABR_ABS07-32.768KHZ-T	oscillator 32KHz 12.5pF		Y2, Y3, Y5	3	Fitted
131	Abracon	ABM11-143-27.120MHZ-T3	PAS_XTL_ABR_ABM11-143-27.120MHZ-T3			Y4	1	Fitted
132	CTS	403C35D25M00000	PAS_XTL_CTS_403C35D25M00000	Crystal 25MHz 30ppm 18pF -20C +70C		Y7	1	Fitted