

PNEV7462B_V2.2

Component	Label	Value	Manufacturer	Footprint	Ref Des	Quantity
connector Micro USB-B	105017-0001	Micro-B	Molex	SMD (Micro-B)	X1, X3	2
quartz crystal	8Y-27.120MAAE-T	27.12MHz	TXC CORPORATION	4-SMD (2 x 1,6mm)	X2	1
IC – uP + reader	PN7462AU		NXP	HVQFN64	IC3	1
IC – REG (LDO)	NCP1117ST50T3G NCP1117LPST50T3G	5V / 1A	ON Semiconductor	SOT-223-3	IC8	1
IC – REG (LDO)	ADP3338AKCZ-3.3RL7	3.3V / 1A	Analog Devices	SOT-223-3	IC9	1
IC – FLASH	S25FL216K00PMF041 = obsolete S25FL216K00PMF011	last number: packing type 0 – Tray; 1 – Tube	Spansion	SOIC8	IC5	1
IC – Reset	MAX811TEUS+T MIC811TUY ADM811TARTZ		Maxim Micrel Analog Devices	SOT-143B	IC2	1
IC – multiple SAM	TDA8026ET/C2		NXP	TFBGA-64	IC4	1
inductor	36502AR47JTDG	470nH / 220mA	TE Connectivity	INDC0805	L4, L7	2
inductor	744042100	10uH / 1.3A	Würth	INDC1919 (4,8x4,8mm)	L9	1
inductor	PM1812-R10K-RC CM453232-R10MLCT	100nH	Bourns	INDC1812	L1, L6	2
inductor – ferrite bead	BLM21PG331SN1D	330R	Murata	INDC0805	L1, L2, L6, L10, L11	5 3
diode – ESD	PRTR5V0U2X	7.5V / 700mA	NXP	SOT-143B	D1, D3	2
diode – Schottky	PMEG6020ER	60V / 2A	NXP	SOD-123W	D4	1
diode – Schottky	PMEG3020EJ	30V / 2A	NXP	SOD-323F	D2, D5, D6, D7, D8, D9, D10	7
rotary encoder	STEC12E08		ALPS	THT	R31	1 0
GND bridge	D3080-05 S2 508		Harwin Inc.	THT (R=5,08mm)	G1, G7	2
button (switch)	FSM2JH		TE CONNECTIVITY	THT	SW2, SW3, SW4	3
pinheader – JTAG	3220-10-0100-00 (10122277-310000TLF) (M50-3500542)	2x5 PIN (M)	CNC Tech FCI Harwin	THT (R=1,27mm)	JP4	1
connector pinheader (M)		1x2 PIN (M) R=2,54	Neltron	THT	JP10, JP12, JP14, JP15, JP17, JP18, JP19, JP23, JP24, JP25, JP26, JP27, JP28, JP29, JP42	15

connector socket (F)		1x27 PIN (F)	Neltron	THT	M2, M3	2
connector pinheader (M)		2x3 PIN (M) R=2,54	Neltron	THT	JP5, JP41	2
connector pinheader (M)		2x5 PIN (M) R=2,54	Neltron	THT	JP32	1
connector SMART CARD	571-5145300-2		TE CONNECTIVITY	SMD	J1	1
connector SAM CARD	611-CCM03-3754LFTR10		C&K Components	SMD	SAM1	1
connector – PWR JACK	PJ-202A	2,1 x 5,5mm	CUI Inc.	THT	P4	1
connector – GPIO	SPEEDY 26 M LP	2x13pin M	Neltron	THT	P2	1
LED	KP-1608ID	RED	Kingbright	SMD – 0603	LED2, LED8	2
LED	KP-1608SGD	GREEN	Kingbright	SMD – 0603	LED3, LED5, LED6, LED9, LED11, LED13	6
LED	KP-1608QBC-D	BLUE	Kingbright	SMD – 0603	LED4, LED10, LED12	3
LED	KP-1608SYCK	YELLOW		SMD – 0603	LED1, LED7	2
capacitor		12pF		CAPC0603	C27, C30	2
capacitor		1pF NP0		CAPC0603	C35, C49	2
capacitor		27pF NP0 1%		CAPC0603	C29, C32	2
capacitor		33pF NP0 1%		CAPC0603	C37, C47	2
capacitor		68pF NP0 1%		CAPC0603	C41, C43	2
capacitor		82pF NP0 1%		CAPC0603	C36, C41, C43, C48	4 2
capacitor		100pF NP0 1%		CAPC0603	C28, C31	2
capacitor		120pF NP0 1%		CAPC0603	C38, C40, C44, C46	4
capacitor		1nF NP0 1%		CAPC0603	C26, C33	2
capacitor		10nF		CAPC0603	C2, C3, C79	3
capacitor		100nF		CAPC0603	C5, C7, C11, C12, C13, C15, C24, C25, C34, C64, C65, C66, C67, C68, C69, C71, C72, C78, C81, C82, C85, C86, C88	23
capacitor		220nF		CAPC0603	C18, C19	2
capacitor		470nF / 25V		CAPC0603	C14, C16, C20	3
capacitor		1uF / 16V X7R		CAPC0603	C4, C9, C10, C22, C50, C51, C52, C53, C63	5 4 8
capacitor		2u2 / 16V X7R		CAPC0603	C23, C80, C83, C84, C87	5 4
capacitor		4u7 / 6.3V X7R		CAPC0603	C17	1
capacitor		6u8 / 10V X7R		CAPC0603	C23	1
capacitor		10uF / 6.3V		CAPC0603	C1, C74, C75, C77	4
capacitor		4u7 / 16V X7R		CAPC1206	C21	1 0
resistor bridge		0R		RESC0402	SJ2, SJ4, SJ6, SJ7, SJ9, SJ10, SJ11	7

resistor		0R		RESC0603	R33, R34, R36, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R56, R57, R58, R59, R66, R74, R75, R76 , R77, R83, R84, R111, R129, R132, R139, R140, R146, R158, R166, R168, R175, R176, R178, R182, R183, R184, R185, R186, R193, R194, R195, R196, R197, R200, R201, R203, R207, R208	54 53
resistor		2R2 1%		RESC0603	R117, R118, R119, R120	4
resistor		33R		RESC0603	R2, R3	2
resistor		300R		RESC0603	R76	1
resistor		1k		RESC0603	R1, R4, R5, R8, R10, R23, R25, R26, R127, R155, R156, R160, R161, R162, R163, R164, R165, R215	18
resistor		2k7		RESC0603	R39	1
resistor		3k3		RESC0603	R12, R13	2
resistor		4k7		RESC0603	R116, R121	2
resistor		10k		RESC0603	R14, R15, R16, R17, R18, R19, R20, R21, R22, R29, R30, R32, R35, R37, R38, R54, R55, R67, R123, R124, R126	21
resistor		100k		RESC0603	R78, R148	2
resistor		1M		RESC0603	R6, R7, R9, R70, R71, R72	6
resistor		0R		RESC0805	R40 , R179, R181, R187, R189, R211, Rxb1, Rxb2, Rxb3, Rxb4	9 10
EXTRA:						
jumper				THT		5