

BOM

Project: Dantest_HW9.PrjPCE
Revision: 4.1
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Designator	Quantity	Comment	Manufacturer P/N	Footprint	Supplier 1	Supplier Part Number 1	Description
ANT2	1	A10393	A10393	ANT_A10393		237-A10393	Two pin antenna, with ground connection
ANT3	1	AH316M245001-T	AH316M245001-T	ANT_AH316M245001		963-AH316M245001-T	Two pin antenna, with ground connection
C1, C3, C4, C5, C6, C7, C8, C9, C10, C15, C16, C18, C22, C26, C29, C32, C33, C34, C35, C36, C37, C38, C42, C43, C54, C55, C56, C57, C60, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C80, C87, C88, C90, C93, C94, C95, C96, C99, C101, C102, C103, C105, C106, C108, C109, C112, C113, C138, C140, C142, C147, C155, C157, C164, C167, C178, C180, C181, C185, C186, C188	75	100nF	CL05B104K05NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05B104K05NNNC	Non polarized capacitor
C2, C17, C123, C182, C189	5	10nF	CL05B103KB5NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05B103KB5NNNC	Non polarized capacitor
C11, C12, C23, C24, C45, C59, C83, C97, C98, C104, C111, C118, C120, C121, C122, C148, C163, C166, C168	19	1uF	CL05A105K05NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05A105K05NNNC	Non polarized capacitor
C13, C14	2	2.2uF	CL05A225MQ5NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05A225MQ5NNNC	Non polarized capacitor
C19, C39, C41, C44, C48, C49, C50, C51, C78, C81, C84, C92, C110, C114, C117, C131, C139, C141, C143, C156, C169, C172, C179, C183, C184	25	10uF	CL05A106MQ5NUNC	CAP_SMD_0402_0.5M M_TM_LD		CL05A106MQ5NUNC	Non polarized capacitor
C25, C30, C31, C86, C119, C132, C134, C136, C145, C149, C151, C153, C161, C170, C173	15	NP	NP	CAP_SMD_0402_0.5M M_TM_MD			Non polarized capacitor
C27, C28, C176, C177	4	18pF	CL05C180JB5NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05C180JB5NNNC	Non polarized capacitor
C40, C85, C115, C116	4	10uF	GRM188R61A106KE69D	CAP_SMD_0603_0.8M M_TM_HD		2494233	Non polarized capacitor
C46, C47, C58	3	330uF	593D337X96R3E2TE3	CAP_SMD_TANT_E		593D337X96R3E2TE3	Polarized Capacitor
C53, C62	2	NP	NP	CAP_SMD_0603_0.8M M_TM_HD			Non polarized capacitor
C79, C82	2	100uF	EEFEP1C101AP	CAP_SMD_ALU_D		667-EEE-FP1C101AP	Polarized Capacitor
C89, C135, C144	3	1.5nF	CL05B152KB5NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05B152KB5NNNC	Non polarized capacitor
C100, C107	2	4.7nF	CL05B472KB5NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05B472KB5NNNC	Non polarized capacitor
C133, C137, C146, C150, C152, C154, C158, C159, C160, C162, C165, C171, C174, C175	14	2.2nF	CL05B222KB5NNNC	CAP_SMD_0402_0.5M M_TM_MD		CL05B222KB5NNNC	Non polarized capacitor
C187	1	1000uF	KZ0J102M-CRF10	CAP_SMD_ALU_F		KZ0J102M-CRF10	Polarized Capacitor
D1, D2, D11, D13, D15, D17, D19, D30	8	BAT54L	BAT54L	NXP_SOD882_1C2A		771-BAT54L-T/R	Schottky diode
D4, D5, D9, D10, D33, D34, D35, D36, D37, D38	10	PESD3V3S1UL	PESD3V3S1UL	NXP_SOD882_1C2A		771-PESD3V3S1UL315	Diode Zener
D6, D7	2	PMEG3005EL	PMEG3005EL	NXP_SOD882_1C2A		771-PMEG3005EL315	Schottky diode
D8	1	BZX884-C15	BZX884-C15	NXP_SOD882_1C2A		771-BZX884-C15315	Diode Zener
D12, D16	2	SMAJ5.0A	SMAJ5.0A	DO-214AC SMA_TM		SMAJ5.0A	TVS Unipolar
D14	1	KPT-1608SYCK	KPT-1608SYCK	LED_0603_0.75MM_TM		KPT-1608SYCK	Single colored LED
D20, D21, D22, D23, D24, D25, D26, D27, D28, D29	10	PTVS14VS1UR	PTVS14VS1UR	NXP_SOD123W		771-PTVS14VS1UR115	TVS Unipolar
D31, D32	2	BAV199W	BAV199W	SC70-3_SOT323_AK		771-BAV199W-T/R	Dual diode with common cathode and anode
F1, F2	2	2.5A	3413.0220.22	FUSE_USI_1206		USI_1206_2.5A	Fuse
L1, L2, L13, L15, L16, L17	6	1K	BLM15HD102SN1D	IND_SMD_0402_0.5MM TM_MD		81-BLM15HD102SN1D	Inductor
L3, L7, L12, L19	4	120R	BLM18PG121SN1D	IND_SMD_0603_0.8MM TM_HD		BLM18PG121SN1D	Inductor
L5	1	NP	NP	IND_SMD_0603_0.8mm			Inductor
L6	1	NP	NP	IND_SMD_0603_0.8MM TM_HD			Inductor
L8	1	5.6nH	LQG18HNSN6S00D	IND_SMD_0603_0.8MM TM_HD_MARK		81-LQG18HNSN6S00D	Inductor
L9	1	8.2nH	LQG18HN8N2J00D	IND_SMD_0603_0.8MM TM_HD_MARK		81-LQG18HN8N2J00D	Inductor
L10	1	10uH	ELLVGG100M	IND_ELLVGG		667-ELL-VGG470M	Inductor
L11	1	47uH	ELLVGG470M	IND_ELLVGG		667-ELL-VGG470M	Inductor
L14	1	120R	BLM31PG121SN1L	IND_SMD_1206_1.3MM TM_HD		BLM31PG121SN1L	Inductor
M1	1	OLED_DAN9_V4		CUSTOM_OLED_BOA RD_DANTESTHW9_V4			Custom OLED board Dantest HW9
P2	1	52271-0469	52271-0469	CON_MOLEX_5227104 69		538-52271-0469	FFC/FPC connector, SMD, 1.00mm pitch, bottom style contacts
P5, P6	2	53047-0510	53047-0510	CON_MOLEX_0530470 510		538-53047-0510	Header, 5-Pin
P7	1	1041681620	1041681620	CON_MOLEX_1041681 620		538-104168-1620	Micro SIM + Micro SD combo connector
P8	1	632723300021	632723300021	CON_WURTH_632723 300021		710-632723300021	USB Type C receptacle
P9	1	B3B-XH-A	B3B-XH-A	CON_JST_B3B_XH_A		455-2248-ND	Header, 3-Pin
P10	1	D15S33E4GV00LF	D15S33E4GV00LF	CUSTOM_CON_DB15_ DANTESTHW9_V4.1		649-D15S33E4GV00LF	D-Sub 15 pins
P11	1	M50-3200345	M50-3200345	M50-3200345		855-M50-3200345	Header/6 pins/2 rows
Q1, Q8, Q9, Q10, Q13, Q14, Q18, Q20, Q21	9	PMXB65UPE	PMXB65UPE	NXP_SOT1215		771-PMXB65UPEZ	P-Channel MOSFET with integrated diode
Q2, Q4, Q5, Q6, Q7, Q12, Q15, Q17, Q19, Q22	10	PMZB290UNE.315	PMZB290UNE.315	NXP_SOD883		771-PMZB290UNE315	N-Channel MOSFET with integrated diode
Q3, Q16	2	SI7615ADN	SI7615ADN	POWERPAK_1212_8		78-SI7615ADN-T1-GE3	P-Channel MOSFET, PowerPAK 1212-8
Q11	1	PMDPB30XN	PMDPB30XN	NXP_SOT1118		771-PMDPB30XN115	MOSFET, N channel, SOT1118
R1, R18, R41, R46, R59, R83, R89, R95, R128	9	1K	CR10-1001-FK	RES_0402_0.35MM_T M_MD		R0402 1K 1% YAG/ASJ	Resistor
R2, R5, R6, R19, R32, R35, R78, R80, R81, R82, R101, R104, R107, R108, R111, R112, R113, R114, R121, R123, R124, R145, R146, R147, R148	25	10K	CR10-1002-FK	RES_0402_0.35MM_T M_MD		R0402 10K 1% YAG/ASJ	Resistor
R3, R76, R77, R79	4	5.11K	RC0402FR-075K11L	RES_0402_0.35MM_T M_MD		603-RC0402FR-075K11L	Resistor
R4, R7, R8, R9, R12, R13, R17, R20, R21, R23, R24, R25, R28, R29, R30, R31, R34, R36, R40, R45, R47, R50, R54, R57, R58, R60, R63, R64, R65, R66, R88, R97, R98, R100, R136, R140, R141	37	100K	CR10-1003-FK	RES_0402_0.35MM_T M_MD		R0402 100K 1% YAG/ASJ	Resistor
R10, R55	2	20K	CR10-2002-FK	RES_0402_0.35MM_T M_MD		R0402 20K 1% YAG/ASJ	Resistor
R11, R61, R62	3	120K	CR10-1203-FK	RES_0402_0.35MM_T M_MD		R0402 120K 1% YAG/ASJ	Resistor
R14, R87	2	909R	CR10-9090-FK	RES_0402_0.35MM_T M_MD		R0402 909R 1% YAG/ASJ	Resistor
R15, R16, R22, R37, R38, R39, R42, R43, R44, R48, R49, R70, R91, R92, R96, R99, R119, R126, R137, R138, R139	21	100R	CR10-1000-FK	RES_0402_0.35MM_T M_MD		R0402 100R 1% YAG/ASJ	Resistor
R28, R149	2	0R	CRCW0603000020EA	RES_0603_0.45MM_T M_HD		1469739	Resistor
R27, R102, R103, R109, R110, R127, R130, R131, R134	9	NP	NP	RES_0402_0.35MM_T M_MD			Resistor
R33, R90, R105	3	1M	CR10-1004-FK	RES_0402_0.35MM_T M_MD		R0402 1.0M 1% YAG/ASJ	Resistor
R51, R56, R74, R84, R106, R129, R132, R133, R135	9	0R	CR10-000-ZK	RES_0402_0.35MM_T M_MD		R0402 0R 5% YAG/ASJ	Resistor
R52, R142	2	88K	CR10-6802-FK	RES_0402_0.35MM_T M_MD		R0402 88K 1% YAG/ASJ	Resistor
R53, R120, R122	3	39.2K	CO402FR-0739K2L	RES_0402_0.35MM_T M_MD		603-RC0402FR-0739K2L	Resistor
R67, R125	2	56K	CR10-5602-FK	RES_0402_0.35MM_T M_MD		R0402 56K 1% YAG/ASJ	Resistor
R68, R69, R71, R86	4	1.33K/0.1%	ERA-2AEB1331X	RES_0402_0.35MM_T M_MD		667-ERA-2AEB1331X	Resistor

R72, R73, R75	3	30K	RC0402FR-0730KL	RES_0402_0.35MM_T M_MD		603-RC0402FR-0730KL	Resistor
R85	1	47K	CR10-4702-FK	RES_0402_0.35MM_T M_MD		R0402 47K 1% YAG/ASJ	Resistor
R94, R143, R144	3	10R	CR10-10R0-FK	RES_0402_0.35MM_T M_MD		R0402 10R 1% YAG/ASJ	Resistor
R115, R116, R117, R118	4	10M	CR10-1005-FK	RES_0402_0.35MM_T M_MD		R0402 10M 1% YAG/ASJ	Resistor
SP1	1	CSS-0575B-SMT	CSS-0575B-SMT	CSS-0575B-SMT		490-CSS-0575B-SMT-TR	Magnetic buzzer
T1	1	76253/35ENC	76253/35ENC	IND_76253_35ENC		76253/35ENC	High Voltage Isolation Transformer
U1	1	EHS6	EHS6	CINTERION_EHS6		EHS6	GSM Module Gemalto
U2	1	REF3325AIDCK	REF3325AIDCK	SC70-3_SOT323_AK		REF3325AIDCK	Voltage reference
U3	1	TPS3813J25	TPS3813J25	SOT23-6_TM_LD		595-TPS3813J25DBVT	Supervisor with Window-Watchdog
U4	1	STM32F429NI	STM32F429NI	ST_TFBGA216		511-STM32F429NIH6	32 bit ARM Cortex microcontroller
U5	1	LIS331DLH	LIS331DLH	LGA16_3MMX3MM		511-LIS331DLHTR	3 Axis SPI Accelerometer
U6	1	25LC256-I/ST	25LC256-I/ST	TSSOP065P440X300-8N		25LC256-I/ST	EEPROM, SPI
U7	1	IS66WV1M16DBLL-55BLI	IS66WV1M16DBLL-55BLI	BGA48_8X8MM			1M x 16 PSRAM
U8	1	CAM-8MQ	CAM-M8Q	UBLOX_CAM-M8		CAM-M8Q	GPS receiver
U9, U10	2	74AVC4T245BQ	74AVC4T245BQ	NXP_SOT763-1		771-74AVC4T245BQ115	4 bit dual supply translator with 3 state
U11	1	CC3100MOD	CC3100MODR11MAMOB	CC3100MODR11MAMOB		CC3100MODR11MAMOB	WiFi module
U12	1	ST3232E	ST3232EC	TSSOP065P440X500-16N		511-ST3232EC	3-V TO 5.5-V DOUBLE-CHANNEL RS-232 LINE DRIVER/RECEIVER
U13	1	SN74LVC1G139	SN74LVC1G139DCU	TL_DCU_(S-PDSO-G8)		595-SN74LVC1G139DCUT	2 to 4 line decoder, inverted
U14, U16	2	ADUM2401CRIZ	ADUM2401CRIZ	SOIC127P1300X780-16NJC		ADUM2401CRIZ	5kV Magnetic Digital Isolator
U15	1	MCP102T-300E/LB	MCP102T-300E/LB	SC70-3_SOT323_AK		MCP102T-300E/LB	Power supply supervisor
U17, U27	2	MCP1700T-3302E/TT	MCP1700T-3302E/TT	SOT23_TM_LD		MCP1700T-3302E/TT	Microchip LDO in SOT23
U18	1	TPS560200	TPS560200	SOT23-5N-R1		595-TPS560200DBVR	Synchronous Buck Regulator
U19	1	IP4264CZ8-20-TTL	IP4264CZ8-20-TTL	NXP_SOT1166-1		2191744	SIM card ESD protection
U20	1	NUF6001MUT2G	NUF6001MUT2G	UDFN12_1.2MM_2.5M M_0.55MM		863-NUF6001MUT2G	6 channel EMI filter with ESD protection
U21	1	TS3A5017RSV	TS3A5017RSV	TL_RSV(R-PUQFN-N16)		595-TS3A5017RSVR	Dual SP4T analog switch
U22	1	ADS1192IRSM	ADS1192IRSM	TL_RSM_(S-PVQFN-N32)		ADS1192IRSM	ECG Analog Front End, 2 channels
U23	1	OPA348AIDCK	OPA348AIDCK	SC70-5_SOT353		OPA348AIDCK	Single Op Amp
U24	1	NUF2042XV6	NUF2042XV6	SOT-563		863-NUF2042XV6T1G	USB ESD protection and filtering
U25	1	BQ24072RGT	BQ24072RGT	TL_RGT_(S-PVQFN-N16)		BQ24072	Lilion battery charger
U26	1	TPS73733QDRBRQ1	TPS73733QDRBRQ1	TL_DRB_(S-PVSON-N8)		595-TPS73733QDRBRQ1	3.3V, 1A LDO
U29, U35	2	NP	OPA348AIDCK	SC70-5_SOT353		OPA348AIDCK	Single Op Amp
U30	1	ADS1298RIZXG	ADS1298RIZXG	ZXG_(S-PBGA-N64)		ADS1298RIZXG	8 channel ECG AFE
U31	1	74LVC1G80GM	74LVC1G80GM	NXP-XSON6-1.0x1.45x0.5		771-LVC1G80GM115	1 gate D type flip-flop, LVC, SOT886
U32	1	AFE4490RHA	AFE4490RHA	RHA_(S-PVQFN-N40)		AFE4490RHA	SPO2 Analog Front End
U33, U34	2	74LVC1G125GM	74LVC1G125GM	NXP-XSON6-1.0x1.45x0.5		771-LVC1G125GM115	1 gate buffer with 3 state output, LVC, SOT886
Y1	1	32.768KHz	ABS07-120-32.768KHZ-T	XTAL_SMD_3.2MM_1.5MM_0.9MM		815-ABS0712032.768KT	Crystal oscillator 2 pins
Y2	1	8.192MHz	AA-8.192MAGE-T	XTAL_SMD_5X3.2MM		717-AA-8.192MAGE-T	Crystal oscillator 2 pins
Y3	1	10.000MHz	7M-10.000MAAJ-T	XTAL_SMD_3.2MM_2.5MM_0.7MM		717-7M-10.000MAAJ-T	Crystal Oscillator