

Project : T20150/0.0 VECTRON Terminal HW90196
 Device : T20152/0.0
 PCB : HW90196
 Version : V1.2
 E-Nummer: E23362
 PCB Date: 15.05.2000

Bill of Materials

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item	qty	references	vendor part number	description	package	internal
1	1	U203	AD7888ARU_SS0_S	A/D Converter +2.7V-5,25V, Low	SS016	E04330
2	1	U7	AM29DL322C_S	FLASH 3.0V 32M, 4Mx8 2Mx16 CM	TSOP48	E04268
3	1	BAT202	BAT3V35MAH_CR1220-P1_D	Battery 3V Lithium Battery mit	CR1220P1	E14587
4	1	BAT201	BAT3V35MAH_CR1220/HM5_D	Battery 3V Lithium Battery mit	CR1220	E14582
5	1	BAT200	BAT3V125MAH_CR1632/1HE_D	Battery 3V Lithium Battery mit	CR1632	E14583
6	1	ST200	BDB2X13SS_R127_SAMTEC_S	Buchse Durchsteckbar BDB2x13S	BDB2X13SSR127	E26427
7	1	LS1	BEEPER_MUT01A_S	Beeper	MUT01A	E14301
8	1	ST203	BF2X6S_R127I22_CLP_S	Buchsenleiste Federkontakte h:	CLP_106_02_X_D	E26438
9	2	Q22, Q23	BS170FMV_S0T_S	N-Channel FET n-channel enhanc	SOT23	E02504
10	1	ST206	CCCON_EM02_S	[C]hip[C]ard[CON]nector SMD Ch	CCCON_EM02_S	E14198
11	2	ST201, ST202	CCCON_S0825X29_S	[C]hip[C]ard[CON]nector Chipka	CCCON_S0825	E26354
12	1	U17	DS1804ZN_010_S0_S	Spezial Function Digitales Pot	S08	E04431
13	1	SW200	EVQPL_TYPE_B_S	Taster Taster Liegend H=0,8 mm	EVQPL	E27102
14	1	ST205	FPC10WZS_R050_TC_JAE_MIR_S	Flexible Printed Circuits 0.3	FPC10W_52745MLX	E26440
15	1	ST1	FPC20WZS_R050_BC_MLX_S	Flexible Printed Circuits 0.3	FPC20W_52746MLX	E26432
16	1	ST2	FPC20WZS_R050_TC_JAE_MIR	Flexible Printed Circuits 0.3	FPC20W_52745MLX	E26433
17	1	JP200	FS1X8_L254_MIR_D	Flexstrip-Jumper Flexstrip Jum	FS1X8	E14953
18	2	Q24, Q30	IRF7314_S	P-Channel FET Dual P-Channel M	S08	E02563
19	23	Q1-Q7, Q11-Q16, Q18, Q19, Q25, Q26	IRLML2402_S0T_S	N-Channel FET N-Channel MOSFET	SOT23	E02562
*		Q27, Q202, Q203, Q207, Q208, Q213				
20	3	Q29, Q31, Q201	IRLML5103_S0T_S	P-Channel FET P-Channel MOSFET	SOT23	E02554
21	15	Q8-Q10, Q17, Q20, Q21, Q28, Q200	IRLML6302_S0T_S	P-Channel FET P-Channel MOSFET	SOT23	E02566
*		Q204-Q206, Q209-Q212				
22	1	U9	KM29W32000TS_TSOP_S	FLASH-EPROM 32Mbit (4Mx8bit) C	TSOP44B_2F	E04257
23	3	D8, D207, D208	LL101A_S	Schottkydiode	SOD80	E02502
24	11	D1, D2, D5, D7, D9-D12, D201, D212	LL4148_SOD_S	Schaltdiode (Universaldiode)	SOD80	E02500
*		D213				
25	1	U201	LMV921_S	Operational Amplifier 1.8V, 1M	SOT23_5	E04613
26	2	U13, U202	LM60CIM3_S0T_S	Temperature Sensor	SOT23	E02567
27	3	U1, U19, U22	LTC1755CGN_SS0_S	Chip Card Interface smart card	SS024	E04393
28	1	U15	LT1308BCS8_S	Voltage Converter High Current	S08	E04650
29	1	U200	LT1613CS5_S	Voltage Converter Single Cell	SOT23_5	E04521
30	1	U20	MAX710ESE_S	Voltage Converter Step UP/DOWN	S016	E04367
31	1	U204	MAX811S_S	Power Fail Detector 4-Pin uP V	SOT143	E04609
32	1	U16	MAX834EUKT_S	Voltage Comparator Latching Vo	SOT23_5	E04642
33	1	U21	MAX918EUKT_S	Voltage Comparator Comparator	SOT23_5	E04316
34	9	D3, D4, D6, D200, D202, D203, D211	MBR0520L_S0D_S	Schottkydiode V (RRM) 20V	SOD123	E02516
*		D214, D215				
35	1	U6	MC68328PV16V_S	CPU Motorola "Dragon Ball"	QFP144	E04700
36	2	U2, U3	M5M5408ATP_85VLL_TSOP_S	Static RAM 4Mbit (512x8) CMOS	TSOP32_2	E04530_1
37	1	JP1	PADO	Jumper Pad open		--456
38	1	ST204	PL2X6S_R127L80I29_FTSH_S	Pfostenleiste h:10.9mm	FTSH_106_XX_X_D	E26052

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39	4	D204, D206, D209, D210	SS16_D0_S	Schottkydiode Surface mount sc	D0214	E02538
40	198	TP1-TP131, TP133-TP199	STP_S	SMD		E_gibts
41	1	U23	TFDU4100_TR3_S	IRDA Infrarot Sender/Empfaenge	TFDU4100_S	E04464
42	4	TP200-TP203	TP_D11_D	Testpunkt	MP11	---140
43	7	VA1, VA2, VA200, VA202, VA203	VC080505C150_5V_0805_S	Spannungstransienten Schutz Sp	VS0805	E02510_1
*		VA204, VA205				
44	3	VA3, VA4, VA201	VC080514C300_14V_0805_S	Spannungstransienten Schutz Sp	VS0805	E02509
45	1	U8	V3020-8S_S0_S	Real Time Clock Ultra Low Powe	S08	E04040
46	1	U10	XCS05XL4_VQ100_S	LCA FPGA Spartan Serie 3,3V	VQFP100S	E04625
47	19	R24, R28, R30, R32, R35, R39, R45	n.b._0W063_0603_S	Nicht bestückter Widerstand in		-----1
*		R50, R51, R58, R60, R71, R74, R78				
*		U14, R117, R202, R216, R217				
48	1	CE218	0F33_-20%/+80%_5V5_GC_BFA_D	Gold Capacitor Gold Capacitor	GC_130X70R	E09082
49	21	R3, R4, R6, R23, R29, R31, R43, R54	0R_1%_0603_0W063_S	Resistor SMD Chipwiderstand BF	RS0603	E08663
*		R62, R64, R75, R77, R92, R101, R104				
*		R200, R218, R230, R233, R237, R241				
50	1	F200	1AT_NANO2_S	Fuse SMD Protector	NANO2FUSE	E27605
51	17	R25, R34, R49, R95, R122, R125	1K2_1%_0603_0W063_S	Resistor SMD Chipwiderstand BF	RS0603	E08675
*		R206-R208, R221-R225, R227, R238				
*		R242				
52	12	R33, R36, R40, R47, R48, R115, R201	1M_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08625
*		R203, R209, R229, R232, R243				
53	1	D205	1N4001_MELF_S	Gleichrichterdiode	MELF	E02501
54	3	CE1, CE6, CE7	1UF_20%_35V_CE_TA_3528_S	Tantal-Elektrolytk. SMD Baufor	CTS3528	E09515
55	5	CE3, CE5, CE10, CE11, CE209	1UF5_20%_16V_CE_TA_3216_S	Tantal-Elektrolytk. SMD SMD-Ta	CTS3216	E09573
56	7	CE4, CE8, CE202-CE204, CE211	1UF5_20%_16V_CE_TA_3528_S	Tantal-Elektrolytk. SMD Refere	CTS3528	E09541
*		CE213				
57	3	C13, C32, C208	2NF7_10%_50V_CV_X7R_0805_S	Keramik-Vielschichtk. SMD Kera	CVS0805	E09562
58	4	R19, R20, R112, R113	2R2_5%_0W1_0805_S	Resistor SMD	RS0805	E08619
59	4	R11, R94, R100, R106	3K3_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08669
60	2	C219, C220	3PF3_5%_50V_CV_NP0_0805_S	Keramik-Vielschichtk. SMD NP0/	CVS0805	E09572
61	3	CE201, CE208, CE220	4UF7_10%_16V_CE_TA_3216_S	Tantal-Elektrolytk. SMD BF_A	CTS3216	E09589
62	4	C12, C14, C34, C43	6NF8_10%_63V_CV_X7R_0603_S	Keramik-Vielschichtk. SMD X7R	CS0603	E09609
63	1	L206	6UH8_DT1608C_S	Inductance SMT Power Inductors	DT1608C	E08316
64	1	L205	6UH8_1008LS_S	Inductance SMD-Spule	LS1008	E08715
65	10	R1, R5, R27, R37, R63, R109, R220	10K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08626
*		R235, R239, R240				
66	14	C21, C38, C39, C42, C44, C201, C205	10NF_10%_50V_CV_X7R_0603_S	Keramik-Vielschichtk. SMD 50V/	CVS0603	E09584
*		C209, C211-C216				
67	4	R83, R210, R211, R219	10R_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08664
68	3	C8, C29, C36	10UF_20%_10V_CV_Y5V_LESR_1210_S	Keramik-Vielschichtk. SMD Kera	CVS1210	E09596
69	6	CE2, CE9, CE200, CE215, CE217	10UF_20%_16V_CE_TA_3528_S	Tantal-Elektrolytk. SMD	CTS3528	E09598

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*		CE219				
70	1	CE205	10UF_20%_16V_CE_TA_6032_S	Tantal-Elektrolytk. SMD	CTS6032	E09503
71	1	CE212	10UF_20%_35V_CE_TA_7243_S	Tantal-Elektrolytk. SMD BF7243	CTS7243	E09523
72	1	R55	22K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08671
73	2	C1, C2	22PF_10%_50V_CV_X7R_0805_S	Keramik-Vielschichtk. SMD	CVS0805	E09509
74	3	L200, L204, L210	22UH_DS1608C_S	Inductance SMT Power Inductors	DS1608C	E08708
75	2	Y200, Y201	32KHZ768_MC406_S	Quarz	MC406	E27340
76	2	R123, R124	33R_5%_0W063_0603_S	Resistor SMD SMD-Widerstand 33	RS0603	E08699
77	5	R2, R53, R59, R61, R214	47K_1%_0W1_0603_S	Resistor SMD	RS0603	E08627
78	3	C4, C26, C210	47NF_16V_CV_X7R_0805_S	Keramik-Vielschichtk. SMD X7R-	CVS0805	E09612
79	9	L1-L4, L201-L203, L208, L209	60R100MHZ_S	Inductance Chip Ferrite 60 OHM	LS0805	E08339
80	1	R226	68K_1%_0W063_0603_S	Resistor SMD	RS0603	E08687
81	2	U12, U205	74AHC1G32_DCK_S	OR SINGLE 2-Input Positive OR-	DCK	E04567
82	1	U18	74AHC14_TSSOP_S	Inverter Hex Schmitt Inverter	TSSOP14	E04566
83	1	U4	74AHC541_TSSOP_S	Buffer Octal Buffers/Drivers w	TSSOP20	E04560
84	1	U5	74AHC574_TSSOP_S	Flip-Flop Octal Edge-Triggered	TSSOP20	E04554
85	1	U11	74HC4052_TSSOP_S	Multiplexer Dual 4-Channel Ana	TSSOP16	E04104
86	27	R7, R16, R21, R22, R26, R38, R41	100K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08620
*		R42, R44, R46, R76, R79, R80, R89				
*		R90, R96, R97, R103, R110, R114				
*		R121, R212, R213, R215, R228, R234				
*		R236				
87	11	C3, C20, C23, C28, C37, C40, C41	100NF_10%_25V_X7R_CV_0805_S	Keramik-Vielschichtk. SMD 25V/	CVS0805	E09586
*		C200, C206, C217, C218				
88	3	C16, C203, C204	100PF_5%_50V_C0G_CV_0603_S	Keramik-Vielschichtk. SMD 50V/	CVS0603	E09582
89	27	R8-R10, R12-R15, R17, R18, R66	100R_1%_0W063_0603_S	Resistor SMD	RS0603	E08589
*		R68-R70, R72, R73, R81, R82, R84				
*		R85-R88, R99, R102, R105, R107				
*		R108				
90	2	CE206, CE214	100UF_20%_10V_CE_TA_7243_S	Tantal-Elektrolytk. SMD BF7343	CTS7243	E09531
91	3	R93, R119, R120	220K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08621
92	1	C202	220NF_10%_50V_CV_X7R_1206_S	Keramik-Vielschichtk. SMD	CVS1206	E09513
93	2	CE210, CE216	220UF_20%_10V_CT_CT7343_S	Tantal-Elektrolytk. SMD SMD Ta	CTS7343	E09630
94	3	R67, R98, R116	270K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08672
95	2	R56, R65	330K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08673
96	1	R118	360K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08622
97	1	R52	390K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08674
98	12	C5-C7, C9, C17-C19, C22, C24, C27	390PF_10%_50V_CV_X7R_0805_S	Keramik-Kondensator SMD	CKS0805	E09514
*		C30, C35				
99	1	CE207	470uF_20%_6V_CE_TA_7343H_S	Tantal-Elektrolytk. SMD hmax=4	CTS7343H	E09608
100	6	R57, R91, R111, R204, R205, R231	680K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08624
101	3	C10, C33, C207	680PF_10%_50V_CV_X7R_0805_S	Keramik-Vielschichtk.	CVS0805	E09539

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item	qty	references	vendor part number	description	package	internal
102	5	L207, L211-L214	800R200MHZ_0805_S	Inductance	LS0805	E08325
103	4	C11, C15, C25, C31	820PF_10%_50V_CV_X7R_0805_S	Keramik-Vielschichtk. SMD	CVS0805	E09532

Total Parts Used: 618
 Total Parts Cost: 0

do not place:

3	1	BAT202	BAT3V35MAH_CR1220-P1_D	Battery 3V Lithium Battery mit	CR1220P1	E14587
4	1	BAT201	BAT3V35MAH_CR1220/HM5_D	Battery 3V Lithium Battery mit	CR1220	E14582
5	1	BAT200	BAT3V125MAH_CR1632/1HE_D	Battery 3V Lithium Battery mit	CR1632	E14583
14	1	ST205	FPC10WZS_R050_TC_JAE_MIR_S	Flexible Printed Circuits 0.3	FPC10W_52745MLX	E26440
15	1	ST1	FPC20WZS_R050_BC_MLX_S	Flexible Printed Circuits 0.3	FPC20W_52746MLX	E26432
17	1	JP200	FS1X8_L254_MIR_D	Flexstrip-Jumper Flexstrip Jum	FS1X8	E14953
19	4	Q7, Q12, Q208, Q213	IRLML2402_SOT_S	N-Channel FET N-Channel MOSFET	SOT23	E02562
21	3	Q10, Q17, Q212	IRLML6302_SOT_S	P-Channel FET P-Channel MOSFET	SOT23	E02566
22	1	U9	KM29W32000TS_TSOP_S	FLASH-EPROM 32Mbit (4Mx8bit) C	TSOP44B_2F	E04257
24	1	D213	LL4148_SOD_S	Schaltdiode (Universal diode)	SOD80	E02500
29	1	U200	LT1613CS5_S	Voltage Converter Single Cell	SOT23_5	E04521
33	1	U21	MAX918EUKT_S	Voltage Comparator Comparator	SOT23_5	E04316
34	2	D4, D6	MBR0520L_SOD_S	Schottkydiode V (RRM) 20V	SOD123	E02516
39	2	D209, D210	SS16_DO_S	Schottkydiode Surface mount sc	D0214	E02538
45	1	U8	V3020-8S_SO_S	Real Time Clock Ultra Low Powe	S08	E04040
47	19	R24, R28, R30, R32, R35, R39, R45	n.b._0W063_0603_S	Nicht bestückter Widerstand in		-----1
*		R50, R51, R58, R60, R71, R74, R78				
*		U14, R117, R202, R216, R217				
51	1	R49	1K2_1%_0603_0W063_S	Resistor SMD Chipwiderstand BF	RS0603	E08675
52	4	R40, R47, R48, R243	1M_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08625
56	1	CE203	1UF5_20%_16V_CE_TA_3528_S	Tantal-Elektrolytk. SMD Refere	CTS3528	E09541
58	2	R19, R112	2R2_5%_0W1_0805_S	Resistor SMD	RS0805	E08619
60	2	C219, C220	3PF3_5%_50V_CV_NP0_0805_S	Keramik-Vielschichtk. SMD NP0/	CVS0805	E09572
64	1	L205	6UH8_1008LS_S	Inductance SMD-Spule	LS1008	E08715
65	1	R109	10K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08626
71	1	CE212	10UF_20%_35V_CE_TA_7243_S	Tantal-Elektrolytk. SMD BF7243	CTS7243	E09523
75	1	Y201	32KHZ768_MC406_S	Quarz	MC406	E27340
86	2	R41, R46	100K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08620
89	3	R8, R72, R85	100R_1%_0W063_0603_S	Resistor SMD	RS0603	E08589
91	1	R93	220K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08621
94	1	R98	270K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08672

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parts modifications:						
	2	1 U7	AM29DL322C_S	FLASH 3.0V 32M, 4Mx8 2Mx16 CM	TSOP48	E04268
in	2	1 U7	AM29DL800BT-120EC_S	FLASH 3.0V 8M, 1Mx8 512kx16 CM	TSOP48	E04266
	73	2 C1,C2	22PF_10%_50V_CV_X7R_0805_S	Keramik-Vielschichtk. SMD	CVS0805	E09509
in	73	2 C1,C2	6PF8_10%_50V_CV_X7R_0805_S	Keramik-Vielschichtk. SMD	CVS0805	E09635
	86	1 R121	100K_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08620
in	65	1 R121	10K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08626
alternative parts:						
für	2	1 U7	AM29DL800BT-120EC_S	FLASH 3.0V 8M, 1Mx8 512kx16 CM	TSOP48	E04266
	2	1 U7	AM29DL800BB-90EI_S	FLASH 3.0V 8M, 1Mx8 512kx16 CM	TSOP48	E04267
	2	1 U7	M29W800B-120N1_S	FLASH 3.0V 8M, 1Mx8 512kx16 CM	TSOP48	E04249
Für	28	1 U15	LT1308BCS8_S	Voltage Converter High Current	S08	E04650
	28	1 U14	LT1308ACS8_S	Voltage Converter DC/DC Conver	S08	E04539
Für	16	1 ST2	FPC20WZS_R050_TC_JAE_MIR	Flexible Printed Circuits 0.3	FPC20W_52745MLX	E26433
	16	1 ST2	FPC20WZS_R050_TC_MLX_MIR	Flexible Printed Circuits 0.3	FPC20W_52745MLX	E26431
	15	1 ST1	FPC20WZS_R050_BC_MLX_S	Flexible Printed Circuits 0.3	FPC20W_52746MLX	E26432
	15	1 ST1	FPC20WZS_R050_BC_JAE_S	Flexible Printed Circuits 0.3	FPC20W_52746MLX	E26434
variation:						
MAX710:						
	47	1 R93	n.b._0W063_0603_S	Nicht bestückter Widerstand in		-----1
	49	1 R92	0R_1%_0603_0W063_S	Resistor SMD Chipwiderstand BF	RS0603	E08663
MAX711:						
	91	1 R93	220K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08621
	96	1 R92	360K_1%_0W1_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08622

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Device : ADP90196
PCB : ADP90196
Version : V1.0
E-Nummer: E23320
PCB Date: 29.12.1999

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1	3	ST1-ST3	BK_E30860_D	Beruehrkontakte Stiftkontakt	BK_E30860	E30860
2	2	JP1, JP2	FS1X8_L254_D	Flexstrip-Jumper Flexstrip	FS1X8	E14953
3	3	SW1-SW3	SPPW81_610_B2__TYPE_B2_A	Taster Taster stehend	SPPW81_B2	E27104

Total Parts Used: 8
Total Parts Cost: 0

Project : T20150/0.0 VECTRON Terminal HW90196
 Device : TAS90196
 PCB : TAS90196
 Version : V1.0
 E-Nummer: E23400
 PCB Date: 31.01.2000

Bill of Materials

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item	qty	references	vendor part number	description	package	internal
1	16	SW3-SW18	CL_170Y__KEY5_S	Taster Tastengummimattenanschl	KEY5	E02145
2	4	SW19-SW22	KEYR300__A	Taster Schaltnest fuer Gummima	KEYR300	---267
3	8	D1-D8	LL4148_S0D_S	Schaltdiode (Universaldiode)	S0D80	E02500
4	1	ST1	PL2X13S_R127L60I13_FTS_MIR_S	Pfostenleiste h:7.3mm	FTS_113_XX_X_DV	E26053
5	2	TP1,TP2	STP_S	SMD		E_gibts
6	16	R3-R18	120R_1%_0W063_0603_S	Resistor SMD Chipwiderstand BF	RS0603	E08665

Total Parts Used: 47
 Total Parts Cost: 0

Project : T20150/0.0 VECTRON Terminal HW90196
 Device : DEC90196
 PCB : DEC90196
 Version : V1.1
 E-Nummer: E23381
 PCB Date: 02.03.2000

Bill of Materials

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item	qty	references	vendor part number	description	package	internal
1	1	ST1	BF2X6S_R127I22_CLP_MIR_S	Buchsenleiste Federkontakte h:	CLP_106_02_X_D_	E26438
2	2	ST3,ST4	PL1X2S_R2L32I15_TMM_S	Pfostenleiste Pfostenleiste 1x	PL1X2SSR2_TMM_S	R11804
3	1	ST2	PL2X25S_FTSH_HW86010_DEC90196_S	Pfostenleiste SMD Pfostensteck	PL2X25SS_FTSH_8	E26025
4	16	R1-R16	47K_1%_0W1_0603_S	Resistor SMD	RS0603	E08627

Total Parts Used: 20
 Total Parts Cost: 0

Project : T20150/0.0 VECTRON Terminal HW90196
Device : LAD90196
PCB : LAD90196
Version : V1.0
E-Nummer: E23390
PCB Date: 25.01.2000

Bill of Materials

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item	qty	references	vendor part number	description	package	internal
1	4	ST1-ST4	BK__HWKONTAKT_A	Beruehrkontakte HW Beruehrkont	HWKONTAKTNIETE	E14360
2	4	TP1-TP4	TP_20_R_S	Testpunkt SMD - Testpunkt d =	SMP20	---132

Total Parts Used: 8
Total Parts Cost: 0

Project : Terminal HW90196/ Printer HW90195
 Device : T17798/HW86020 2,4 GHz
 PCB : HW86020
 Version : 14046100
 E-Nummer: E18332
 PCB Date: 08.11.2000

Bill of Materials

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item	qty	references	description - package	internal
1	1	G2	FRAME (SMALL)	13129700
2	1		COVER (SMALL)	13129800
3	1		PB KIRK/H&W 2,4GHZ MODULE	14046100
4	1	D100	DIODE DUAL BAV70	84111603
5	1	D200	DIODE LS4148	84111614
6	1	D1	DIODE PIN BAR63-03W SOD323	84111917
7	1	D3	DIODE RF BAR80 MW-4	84111918
8	1	D101	DIODE PIN BAR64-03W SOD323	84111922
9	1	D4	DIODE CAP BB639 SOD323	84111925
10	1	D102	DIODE PIN BAR64-05 SOT23	84111926
11	1	D2	Z-DIODE BZM55C5V1 SOD80Q	84134439
12	3	T6, T101, T200	TRANS BC847W SOT323	84161415
13	2	T5, T100	TRANS DIG DTC143X SOT323	84161420
14	1	T4	TRANS BFS520 SOT323	84161514
15	1	T1	TRANS BFP420 SOT343	84161517
16	1	T7	TRANS FM7T717 SOT23	84162422
17	0	T201 (not mounted)	FET MOS PCH IRLML6302 SOT23	84172315
18	1	IC4	IC V-REG 3V LP2980 SOT23-5	84188211
19	1	IC201	IC V-REG 2.5V LP2980 SOT23-5	84188225
20	1	IC203	IC EEPROM 512X8 24C04	84188611
21	1	IC204	IC FLASH 512KX8 29VLV400-55 m prog	14061000
22	1	IC1	IC RADIO RX/TX LMX3162VBH	84189008
23	1	IC2	IC PA 1.9GHZ 2205AF	84189007
24	1	IC200	IC BURST M/VOICE CONT. 40558	84189128
25	1	IC202	IC V-MONITOR 811	84189210
26	7	R2, R4, R23, R27-28, R33-34	RES 10R 1% 0603	84226125
27	5	R9, R15-16, R18, R214	RES 22R 1% 0603	84226133
28	1	R17	RES 47R 1% 0603	84226141
29	2	R10, R30	RES 100R 1% 0603	84226149
30	1	R32	RES 120R 1% 0603	84226151
31	1	R13	RES 150R 1% 0603	84226153
32	1	R7	RES 180R 1% 0603	84226155
33	1	R26	RES 220R 1% 0603	84226157
34	0		RES 470R 1% 0603	84226165
35	3	R6, R25, R101	RES 680R 1% 0603	84226169
36	2	R12, R14	RES 1.0K 1% 0603	84266201
37	1	R21	RES 1.2K 1% 0603	84226203
38	1	R105	RES 1.5K 1% 0603	84226205
39	1	R22	RES 2.2K 1% 0603	84226209
40	2	R11, R19	RES 3.3K 1% 0603	84226213
41	0		RES 3.9K 1% 0603	84226215
42	3	R31, R100, R212	RES 4.7K 1% 0603	84226217

Project : Terminal HW90196/ Printer HW90195
 Device : T17798/HW86020 2,4 GHz
 PCB : HW86020
 Version : 14046100
 E-Nummer: E18332
 PCB Date: 08.11.2000

Bill of Materials

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item	qty	references	description - package	internal
43	1	R8	RES 6.8K 1% 0603	84226221
44	16	R5, R102, R201-209, R213, R215-217 R20	RES 10K 1% 0603	84226225
45	2	R1, R24	RES 22K 1% 0603	84226233
46	2	R3, R29	RES 47K 1% 0603	84226241
47	1	R210	RES 100K 1% 0603	84226249
48	1	R211	RES 130K 1% 0603	84226252
49	1	R200	RES 1.0M 1% 0603	84226273
50	1	R103	RES 1.0R 5% 0603	84227101
51	1	C108	CAP X7R 220N 10% 16V 0805	84387844
52	1	C3	CAP C0G 4.7N 5% 25V 0805	84387854
53	1	C4	CAP C0G 1.0N 5% 50V 0805	84388485
54	1	C62	CAP C0G 0.68P ±0.1P 50V 0603	84389047
55	1	C34	CAP C0G 1.2P ±0.25P 50V 0603	84389050
56	2	C7, C72	CAP C0G 1.5P ±0.25P 50V 0603	84389051
57	1	C110	CAP C0G 1.8P ±0.25P 50V 0603	84389052
58	1	C10	CAP C0G 2.2P ±0.25P 50V 0603	84389053
59	1	C22	CAP C0G 2.7P ±0.25P 50V 0603	84389054
60	1	C9	CAP C0G 3.3P ±0.25P 50V 0603	84389055
61	1	C65	CAP C0G 3.9P ±0.25P 50V 0603	84389056
62	2	C16, C27	CAP C0G 4.7P ±0.25P 50V 0603	84389057
63	27	C5, C28, C30-31, C33, C35-36, C38-42 C44, C48-49, C51, C55, C58, C60-61, C63, C70, C100-103, C106	CAP C0G 5.6P ±0.5P 50V 0603	84389058
64	2	C200-201	CAP C0G 8.2P 5% 50V 0603	84389060
65	6	C19, C37, C45, C73, C104-105	CAP C0G 10P 5% 50V 0603	84389061
66	0	(C203)	CAP C0G 12P 5% 50V 0603	84389062
67	2	C1, C29	CAP C0G 22P 5% 50V 0603	84389065
68	4	C8, C18, C24, C46	CAP C0G 33P 5% 50V 0603	84389067
69	2	C32, C43	CAP C0G 47P 5% 50V 0603	84389069
70	1	C25	CAP C0G 68P 5% 50V 0603	84389071
71	2	C17, C67	CAP C0G 100P 5% 50V 0603	84389073
72	1	C15	CAP C0G 330P 5% 50V 0603	84389079
73	1	C50	CAP C0G 680P 5% 50V 0603	84389083
74	5	C12, C47, C52-54	CAP X7R 1.0N 5% 50V 0603	84389113
75	1	C206	CAP X7R 2.2N 10% 50V 0603	84389217
76	6	C57, C216-220	CAP X7R 10N 10% 50V 0603	84389225
77	1	C202	CAP X7R 47N 10% 25V 0603	84389233
78	3	C13-14, C69	CAP X7R 100N 10% 16V 0603	84389237
79	3	C2, C207-208	CAP TA 2.2U 20% 6.3V A	84523416
80	1	C210	CAP TA 10U 20% 6.3V A	84523421
81	1	XTAL200	X-TAL 13.824MHZ SMD	84639107

Project : Terminal HW90196/ Printer HW90195
 Device : T17798/HW86020 2,4 GHz
 PCB : HW86020
 Version : 14046100
 E-Nummer: E18332
 PCB Date: 08.11.2000

Bill of Materials

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item	qty	references	description - package	internal
82	1	IC3	X-TAL OSC VCO 1222MHZ	84639517
83	1	L7	COIL CHIP 68NH 10% 0805	84644412
84	2	L1-2	COIL CHIP 220NH 10% 0805	84644413
85	1	L4	COIL CHIP 3.3NH 10% 0603	84644436
86	1	L3	COIL CHIP 6.8NH 10% 0603	84644437
87	3	L100-102	COIL CHIP 10NH 10% 0603	84644442
88	3	L10, L12-13	COIL CHIP 2.2NH 10% 0603	84644443
89	1	L5	COIL CHIP 2.7NH 10% 0603	84644447
90	1	L8	COIL CHIP 22NH 10% 0603	84644452
91	2	L6, L9	COIL CHIP 1.8NH±0.3NH 0603	84644460
92	0	L15	COIL CHIP 8.2NH 10% 0603	84644461
93	4	L200-203	FERRITE CHIP 75R 0805	84647028
94	1	FL1	FILTER SAW 110.6MHZ	84667118
95	2	FL2-3	FILTER CER BPF 2.45GHZ	84667120
96	1	J200	CONN FOR PB 2X25 SOCKET BE SMD	84672665
97	1		Transport TRAY	
98	1		Mærkat Slevkl. 8 Hvid	85041064
99		C6, C56, C59, C71, C73-74, C107, C203	NOT Mounted	

Total Parts Used: 193
 Total Parts Cost: 0