

7.0 Active Circuits List

7.1 Digital Board Active Circuits List

					DESCRIPTION	REFERENCE
			File :		VTU Digital Board	06C2432 REV - E' 07-21-99
ITEM	QTY	PART NUMBER	IDENT	FUNCTION	MANF.	SYMBOL/REF. DESIGNATOR
1	1	ATS-M49 8.000000	CRYSTAL	8.00 Mhz CRYSTAL USED AS CLOCKING INPUT TO MICROCONTROLLER U1	M-TRON	X1
2	1	ATS-M49 4.915200	CRYSTAL	4.9152 Mhz CRYSTAL USED FOR MODULATION/DEMODULATION BY MX909A MODEM CHIP U12	M-TRON	X2
3	1	SK33	DIODES	SCHOTTKY RECTIFIER USED FOR BIAS WITHIN POWER SUPPLY	ROHM	CR1
4	1	SA12CAT	DIODES	TRANZORB USED IN POWER SUPPLY	GENERAL INSTRUMENTS	D1
5	1	CMPD914	DIODES	H SPEED SWITCHING USED TO DRIVE LED INDICATOR LED1	CENTRAL	D2 (SUBSTITUTE - MMBD4148)
6	1	CMPT3904	TRANSISTOR	2N3904 INTERRUPT LINE DRIVE	CENTRL SEMI.	Q1
7	8	CMPT3904	TRANSISTOR	2N3904 LED DISPLAY OR LINE DRIVER TRANSISTORS	CENTRL SEMI.	Q2,3,4,5,6,7,8,16
8	2	FMMT4403	TRANSISTOR	PNP 4403 USED AS LED2 DISIPAY DRIVER	ZETEX	Q11,15
9	2	MTD20P06HDL	TRANSISTOR	FET USED AS SIGNAL INVERTERS AND LATCHES	MOTOROLA	Q14,13
10	1	MMFT3055VL	TRANSISTOR	FET USED AS SIGNAL INVERTERS AND LATCHES	MOTOROLA	Q12
11	1	LM2940-8.0 NO SUB	VOLTAGE REG.	8V POWER SUPPLY REGULATOR LOW VOLTAGE DROPOUT	NATIONAL	U26
12	1	MC7805CT NO SUB	VOLTAGE REG.	5V POWER SUPPLY REGULATOR	MOTOROLA	U27
13	1	AT29C256R-15TI	IC	FLASH ROM CHIP FOR MICROCONTROLLER U1, TSOP	ATMEL	U2
14	1	CMPT4033	TRANSISTOR	PNP, LOW VCEsat USED FOR GPS POWER MANAGEMENT IN JP3	CENTRAL SEMICONDUCTOR	Q9

15	1	DS1233-10N	IC	ECONORESET FOR CONTROL OF MICROCONTROLLER U1 RESETS	DALLAS	U11
16	3	LM201AD	IC	OP AMP USED AS XMIT MODULATION ENVELOPE SHAPING FILTERS	MOTOROLA	U15,28,29
17	4	HCPL-0700	IC	OPTO ISOLATOR FOR SWITCH INPUT BUFFERING	HP	U17,18,19,20
18	1	IDT71256S20YI	IC	RAM CHIP PLCC USED BY MICROCONTROLLER U1	IDT	U9
19	1	MC68HC11A1FN	IC	MICROCONTROLLER EXECUTING CONTROLLING FIRMWARE	MOTOROLA	U1
20	1	MC74HC04AD	IC	HEX INVERTER USED FOR DIGITAL SIGNAL CONDITIONING	MOTOROLA	U8
21	2	MC74HC08AD	IC	AND Gate USED FOR DIGITAL SIGNAL CONDITIONING	MOTOROLA	U5,U6
22	2	MC74HC14AD	IC	INVERTER/BUFFER FOR IC CONTROL LINE BUFFERING	MOTOROLA	U21,22
23	1	MC74HC32AD	IC	OR Gate USED FOR DIGITAL SIGNAL CONDITIONING	MOTOROLA	U7
24	1	MC74HC138AD	IC	DEMUX	MOTOROLA	U4
25	2	MC74HC373AD	IC	DATA SELECTOR FOR CONTROLL OF MICROCONTROLLER/MEMORY ADRESS LINES OR DATA DECODING	MOTOROLA	U3,U14
26	1	MC14050BD	IC	DIGITAL SIGNAL CONDITIONING AND BUFFERING	MOTOROLA	U13
27	1	MX909ADW	IC	MODEM DATA PUMP FOR RADIO GMSK MODULATION/DEMODULATION INCLUDING FEC, CRC TIME SPREADING, DATA SCRAMBLING	MX COM	U12
28	1	LMC660AIM	IC	QUAD OP-AMP USED AS BASEBAND RECEIVER SIGNAL (RSSI, RXOUT) AMPLIFICATION, FILTERING AND INVERSION	NATIONAL	U10
29	1	ST16C550IJ44	IC	UART Chip FOR RS232 INTERFACE CONTROL	EXAR	U23
30	1	LTC1383IS	IC	RS-232 LEVER SHIFTER	LINEAR TECH	U24
31	1	OEM ONCORE	Sub Assemblies	GPS 8 CHANNEL RECEIVER WITH RS232 DATA INTERFACE	MOTOROLA	PLUGGED INTO JP3 HEADRSX2
32	1	242-3474-XYZ (1)	Sub Assemblies	HIGH SPECIFICATION SYNTHESIZED 2 WATT DATA TRANSCEIVER OPERATING AT 450-470MHz UHF Note (1): 242-3474-582 450-470MHz, 12.5kHz BW, 9.6kbps 242-3474-592 450-470MHz, 25kHz BW, 19.2kbps	JOHNSON DATA RADIO	PLUGGED INTO JP1 (14 PIN HEADER)

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