

BOM : Engineering Change Note

ECN	Date	Engineer	Change From				Change to					Notes	
			BOM Component Ref	BOM Item Number	Value	Size	Part Number	BOM Component Ref	BOM Item Number	Value	Size		Part Number
1	28-Sep-01	JC	D23									Part was on PCB but not on BOM	
2	2-Oct-01	JC	All	34	470nF	603	0603YC474KAT2A	All	34	470nF	603	GRM188F51A474ZC01 (Murata)	Fix wrong Part No.
3	2-Oct-01	JC	C198	35	470nF	603	0603YC474KAT2A	C198	35	470nF	603	GRM188F51A474ZC01 (Murata)	Fix wrong Part No.
4	2-Nov-01	JC	All	19	4.7uF	1206	LMK316BJ475ML	All	New	4.7uF	1206	GMK316F475GT (Taiyo Yuden)	Change to part with higher voltage rating (now 35V)
5	2-Nov-01	JC	D23					D23	New		SOT23 [1.0]	ZHCS1000TA	New part has a considerably lower Vf (forward voltage). Note: 1) This supersedes ECN 1 2) The new diode has a different pin out to the original device so needs to be fitted at an angle - refer to Modification MOD51 for details
6	7-Nov-01	JC	All	77	HEADER 12X2	0.1"2x12P PTH	77313-101-12	All			NOT FITTED		Connectors only required for debug purposes
7	7-Nov-01	JC	REF3	94		SOT23	LM4041AIM3-1.2	REF3			NOT FITTED		We can use an internal reference for the Tx ALC Analog to Digital converter
8	7-Nov-01	JC	R256	116	10k	603	MCR03EZHfxxxx	R256			NOT FITTED		See note above
9	8-Nov-01	JC	C443	8	10nF	603	0603YC103KAT2A	C443	14	1nF	603	0603YC102KAT2A	Change Tx ALC filter capacitor
9	8-Nov-01	JC	C281	8	10nF	603	0603YC103KAT2A	C281	14	1nF	603	0603YC102KAT2A	Improvements to Tx ALC
10	8-Nov-01	JC	R449	104	0R	603	MCR03EZHfxxxx	R449	134	5K6	603	MCR03EZHfxxxx	Improvements to Tx ALC
11	8-Nov-01	JC	R464	148			Not fitted	R464	110	22K	603	MCR03EZHfxxxx	Improvements to Tx ALC
12	10-Dec-01	JC	C116	21	220uF	D4 (7343)	10TPB220M	C116	New	680uF	D4 (7343)	T510E687M006AS4115 (Kemet)	Replace capacitor with ultra low ESR part
13	10-Dec-01	JC	C117	21	220uF	D4 (7343)	10TPB220M	C117	New	680uF	D4 (7343)	T510E687M006AS4115 (Kemet)	Replace capacitor with ultra low ESR part
14	10-Dec-01	JC	All	90	7.5mOhms	SO8	IRF7809 (SI4874DY)	All	New	5.0mOhms	SO8	SI4442DY (Siliconix)	Replace Power MOSFET's with higher specified parts
15	11-Dec-01	JC	All	4	100nFx2, 10nFx2	0612x4	W3A4YC103M104MAT3A	All	3	100nFx4	0612x4	W3A4YC104MAT3A	2 value capacitor network is not readily available - use 4x100nF part instead. This ECN was previously done as a concession
16	25-Feb-02	JC	Board Revision Baselined at 2:1 (Initial release revision)										
17	25-Feb-02	JC	Y6	202	2.048MHz	SMOSC(7550)	VCC1-B1D-2M0480	Y6	New	2.048MHz	SMOSC(7550)	VCC1-B3D-2M0480 (Vectron)	B3D part is more readily available. This ECN was previously done as a concession
18	25-Feb-02	JC	U21,U22	172	LXT971	64LQFP	LXT971LC	U21,U22	New	LXT971	64LQFP	LXT971ALC (Intel)	Ethernet PHY device is now made by Intel (previously Level 1). Part number of Intel part has a 'ALC' suffix rather than a 'LC' suffix
19	25-Feb-02	JC	GPS1	61	TU30-D160-011		TU30-D160-011	GPS1	New	TU30-D400-021		TU30-D400-021 (Conexant)	Replace 'Jupiter 10' GPS receivers with latest 'Jupiter 11' receivers (fixes occasional 20mS offset on 1 pps signal)
20	25-Feb-02	JC	Board Revision Baselined at 2:2										
21	29-May-02	JC	All	144	270R	603	MCR03EZHfxxxx	All			NOT FITTED		Improvements to Tx ALC (remove 3dB input pad)
22	29-May-02	JC	R447	145	18R	603	MCR03EZHfxxxx	R447	104	0R	603	MCR03EZHfxxxx	Improvements to Tx ALC (remove 3dB input pad)
23	29-May-02	JC	Board Revision Baselined at 2:3										
24	19-Jul-02	JC					Not on BOM	N/A	New	12V to 5V	SIL4	NKE1205S (C&D Technologies)	Fit 12V to 5V DC/DC converter to board to allow use of +5V active GPS antenna. Refer to Modification 79 for instructions to fit this part
25	19-Jul-02	JC	C110	18	100pF	603	06035A101JAT2A	C110			NOT FITTED		Need to remove this capacitor to fit the DC/DC converter, above
26	19-Jul-02	JC	C363	40	1uF	1206	12065G105KAT2A	C363			NOT FITTED		Need to remove this capacitor to fit the DC/DC converter, above
27	19-Jul-02	JC	Board Revision Baselined at 2:4										
28	19-Sep-02	JC	Y1	198	25.00MHz	VXB2 (1305)	VXB2-1A2-25M000	Y1	New	25.00MHz	VXB2(1305)	GSX49-4/354FF 25M000 (Golledge)	Change potentially faulty Ethernet Crystal (New Comcode FCP2515)
29	19-Sep-02	JC	Y2	198	25.00MHz	VXB2 (1305)	VXB2-1A2-25M000	Y2	New	25.00MHz	VXB2(1305)	GSX49-4/354FF 25M000 (Golledge)	Change potentially faulty Ethernet Crystal (New Comcode FCP2515)
30	19-Sep-02	JC	Board Revision Baselined at 2:5										