

Sena Technologies MTBF Report

Part Number System
Reference Des
Date 11/6/2002
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00



Description VTS1600 MTBF Report
File Name VTS3200.RPJ
Time 11:34 AM
Failure Rate 17.120587
MTBF 58,409

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
VTS3200	System		1.00	17.120587	58,409
MAIN_BOARD			1.00	16.797392	59,533
PANEL_BOARD			1.00	0.323195	3,094,104

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File Name VTS3200.RPJ
Time 11:34 AM
Failure Rate 16.797392
MTBF 59,533

Part Number	Category	Description	Failure Rate, Unit	Quantity	Failure Rate
XPC855TZP50D4	Integrated Circuit	CPU	0.182446	1.00	0.182446
CS-306	Miscellaneous	Crystal	0.029007	1.00	0.029007
SX-6	Miscellaneous	Crystal	0.027256	1.00	0.027256
SCO-060	Miscellaneous	Oscillator	0.062560	1.00	0.062560
SCO-060	Miscellaneous	Oscillator	0.062560	1.00	0.062560
K4S561632G-TC75	Integrated Circuit	Dram Memory	0.012235	2.00	0.024470
1N4002	Semiconductor	Diode	0.057795	2.00	0.115590
1N4742	Semiconductor	Diode	0.040261	1.00	0.040261
K4S281632G-TC75	Integrated Circuit	Dram Memory	0.061175	1.00	0.061175
AM29DL640D120EI	Integrated Circuit	Flash Memory	0.082023	1.00	0.082023
AT49BV321T-90TI	Integrated Circuit	Flash Memory	0.082023	.00	0.000000
XC95288XL-10PQ208C	Integrated Circuit	IC-Cpld	0.016405	1.00	0.016405
LXT972ALC A4	Integrated Circuit	IC-Custom	0.006093	1.00	0.006093
TL16C554APN	Integrated Circuit	IC-Custom	0.006093	8.00	0.048740
MMDF3N02HD	Semiconductor	IC-MOSFET	0.404531	2.00	0.809061
MAX4420CSA	Semiconductor	IC-MOSFET	0.105584	2.00	0.211167
LT1086CM-3.3	Integrated Circuit	IC-Regulator	0.006841	1.00	0.006841
LTC1314CS	Integrated Circuit	IC-Regulator	0.006841	1.00	0.006841
MIC811LU	Integrated Circuit	IC-Reset	0.006834	1.00	0.006834
MAX704TCSA	Integrated Circuit	IC-Reset	0.006982	1.00	0.006982
DS14C88M	Integrated Circuit	IC-RS232	0.041557	26.00	1.080476
DS14C89AM	Integrated Circuit	IC-RS232	0.041469	34.00	1.409939
SM8578BV	Integrated Circuit	IC-RTC	0.006093	1.00	0.006093
74LCX541WM	Integrated Circuit	IC-TTL	0.048253	7.00	0.337773
74LCX573WM	Integrated Circuit	IC-TTL	0.048253	4.00	0.193013
74LCX574WM	Integrated Circuit	IC-TTL	0.048253	4.00	0.193013
74FCT162244TPA	Integrated Circuit	IC-TTL	0.120268	4.00	0.481072
HB2012	Inductor	SMD Bead	0.000030	8.00	0.000240
TANTAL	Capacitor	SMD Capacitor	0.000601	1.00	0.000601
TANTAL	Capacitor	SMD Capacitor	0.000857	2.00	0.001715
TANTAL	Capacitor	SMD Capacitor	0.001020	11.00	0.011220
TANTAL	Capacitor	SMD Capacitor	0.001020	4.00	0.004080
TANTAL	Capacitor	SMD Capacitor	0.001223	1.00	0.001223
TANTAL	Capacitor	SMD Capacitor	0.001456	2.00	0.002912
1608, 0.001? , 50V	Capacitor	SMD Capacitor	0.000123	3.00	0.000368
1608, 0.01? , 16V	Capacitor	SMD Capacitor	0.000208	3.00	0.000625
1608, 0.1? , 16V	Capacitor	SMD Capacitor	0.000354	213.00	0.075331
1608, 10? , 50V	Capacitor	SMD Capacitor	0.000043	1.00	0.000043
1608, 15? , 50V	Capacitor	SMD Capacitor	0.000047	2.00	0.000093
1608, 18? , 50V	Capacitor	SMD Capacitor	0.000049	2.00	0.000097
1608, 33? , 50V	Capacitor	SMD Capacitor	0.000056	231.00	0.012926
1608, 270? , 50V	Capacitor	SMD Capacitor	0.000091	2.00	0.000181
1N4733	Semiconductor	SMD Diode	0.040261	1.00	0.040261
1N5819	Semiconductor	SMD Diode	0.006935	2.00	0.013871
0.001? , 2KV, DIP 10MM	Capacitor	Capacitor Surge	0.019244	1.00	0.019244
SM15	Semiconductor	TVS Protect	0.001597	.00	0.000000
3216, 0? , 5%, 1/8W	Resistor	SMD Resistor	0.000060	2.00	0.000121
1608, 0? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	234.00	0.010762
1608, 100? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	1.00	0.000046
1608, 10? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	3.00	0.000138
1608, 1? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	59.00	0.002714

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Time 11:34 AM
Failure Rate 16.797392
MTBF 59,533

Part Number	Category	Description	Failure Rate, Unit	Quantity	Failure Rate
1608, 1.2? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	1.00	0.000046
1608, 22.1? , 1%, 1/16W	Resistor	SMD Resistor	0.000025	1.00	0.000025
1608, 22? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	10.00	0.000460
1608, 3.3? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	23.00	0.001058
1608, 4.7? , 5%, 1/16W	Resistor	SMD Resistor	0.000046	10.00	0.000460
1608, 49.9? , 1%, 1/16W	Resistor	SMD Resistor	0.000025	6.00	0.000147
1X2PIN, CR2032 SOCKET	Other	Socket-Battery	0.014323	1.00	0.014323
1X4PIN, DIP 2.54MM,	Other	Socket-Jumper	0.007544	1.00	0.007544
MALE 1X3PIN, DIP 2.54MM,	Other	Socket-Jumper	0.007544	2.00	0.015088
MALE 2X5PIN, DIP 2.54MM,	Other	Socket-Jumper	0.007544	2.00	0.015088
MALE CH6160AV100	Other	Socket-Jumper	0.007544	2.00	0.015088
5273-06	Other	Socket-Jack	0.011513	1.00	0.011513
61126-050CAH	Connection	Socket-PCMCIA	0.001051	1.00	0.001051
STP-1236A	Switching Device	Switch Push	0.100391	1.00	0.100391
RJ45, 8PIN, SHIELD, EMI FLIP	Other	RJ-45 Conn	0.073477	1.00	0.073477
XFATM6-COMBO1-4S	Other	RJ-45 Combo	0.073477	1.00	0.073477
RJ45, 2X8 ARRAY, SHIELD, EMI FLIP	Other	RJ-45 Conn	0.073477	2.00	0.146953
KRC101S	Semiconductor	Transistor	0.000490	1.00	0.000490
VTS3200 REV. 0.5	Connection	PCB	0.081600	1.00	0.081600
5V/6AMP	Other	SMPS	10.000000	1.00	10.000000
SMDA24C-8	Semiconductor	TVS Protect	0.001118	36.00	0.040251
DC 12V	Other	DC FAN	0.492358	1.00	0.492358

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Description VTS3200 MTBF Report
File Name VTS3200.RPJ
Time 11:34 AM
Failure Rate 0.323195
MTBF 3,094,104

Part Number	Category	Description	Failure Rate, Unit	Quantity	Failure Rate
BL-HX133A -TR	Semiconductor	LED Diode	0.001265	102.00	0.129030
TANTAL	Capacitor	SMD Capacitor	0.001020	3.00	0.003060
1608, 0.1? , 16V	Capacitor	SMD Capacitor	0.000354	4.00	0.001415
1608, 330? , 5%, 1/16W	Resistor	SMD Resistor	0.001178	65.00	0.076600
1608, 1? , 5%, 1/16W	Resistor	SMD Resistor	0.001178	37.00	0.043603
2X30PIN, 1.27X2.54MM, STRAIGHT, DIP	Other	Socket-Jumper	0.007544	2.00	0.015088
VTS3200_LED REV. 0.3	Connection	PCB	0.054400	1.00	0.054400