StreetRacer RBX1600 Project:

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Components marked with a dashed and crossed box will not be installed during assembly.



- 2. Please refer to the Bill of Material (BOM) which provides all necessary component information for the final assembly.
- 3. The following parameters will apply to all components unless otherwise stated in the BOM or Schematic.

Resistor: +/- 5% or better, 1/16 Watt, 0603 Capacitor, non - polarized: Ceramic, +/- 20%, 0603 Capacitor, polarized: Tantalum, +/- 20% Inductance: +/- 10%

- 4. Bypass capacitors shall be distributed evenly amongst power pins of the IC power and GND pin.
- 5. Always observe layout guidelines and documentation from the component manufacturers

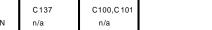
Schematic Statistics:

Parts:	00
Library Parts:	00
Nets:	00
Pins:	00

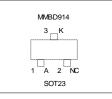
LAST REFERENCES USED

Last used

ANT	n/a	n/a	
BR	n/a	n/a	
ВТ	n/a	n/a	
С	C137	C100,C101	
CN	n/a	n/a	
CON	n/a	n/a	
D	D8	n/a	
F	n/a	n/a	
FB	FB25	n/a	
FL	n/a	n/a	
J	J12	n/a	
JP	n/a	n/a	
K	n/a	n/a	
L	L7	n/a	
LED	LED2	n/a	
M	n/a	n/a	
MH	MH1	n/a	
MT	MT26	MT6,MT12 MT15 - MT24	
OPT	OPT5	n/a	
Р	P1	n/a	
PB	n/a	n/a	
Q	Q10	n/a	
R	R102	R49, R87-R99	
RN	n/a	n/a	
SW	n/a	n/a	
T	n/a	n/a	
TP	TP12	n/a	
U	U18	U7,U8	
Х	X19	X10	
XP	n/a	n/a	
Υ	Y1	n/a	

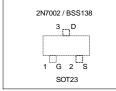


Not used



ES3D

SMC/DO-214AB



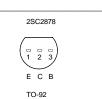
TSOP1140

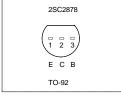
VSHY-TSOP11

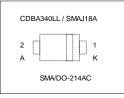
PACDN044Y5

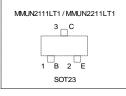
SOT23-5

3 OUT =2 VS =1 GND









VERSION	DATE	DESCRIPTION	NAME
0.1	10-14-2003	Preliminary Design	M. Daroy
0.2	11-25-2003	Preliminary Design 2	M. Daroy
0.3	12-05-2003	Re-designed Ethernet Circuitry	M. Daroy
0.4	12-08-2003	Updates and Changes per Design Review Notes.	M. Daroy
0.5	12-15-2003	Added Ethernet Address, Data and Control Signal Test Ports.	M. Daroy
1.0	12-16-2003 12-23-2003 01-07-2004	Added replacement part attributes. First release for PCB Design. Added Chassis Ground Connection.	M. Daroy
1.1	02-05-2004	Corrected Ethernet PHY connection.	M. Daroy
2.0	02-17-2004 02-19-2004	Added TVS Diode on the Power Input Circuit. Released for Rev. B PCB Design. Edited the Power Input Jack Symbol to match part pins. Added SMB Footprint for the TVS Diode.	M. Daroy
3.0	06-10-2004	Added EMI Filter on the Power Input Circuit. Added 1206 size Footprint connecting DGND and Chassis. Replaced the Switching Regulator Output Caps to Low ESR Ceramic and added caps on the input and output. Added Bulk and bypass caps on the Card Edge Connector. Added termination caps on unused CPU signals. Added EMI Filter on the Power Switch Header. Added Caps on the USB Connector. Added Caps accross SLINK Cable pairs and isolated Digital Ground from Chassis on the Header Connector. Moved J7-8 connection from AGND_ETH to Chassis. Added Bulk Cap before FB17 and combined AGND_ETH to DGND. Added a series resistor on the Ethernet Crystal Output.	M. Daroy
3.1	06-15-2004	Moved the TVS Diode (D6) on the Cathode side of the Reverse Voltage Protection Diode (D1). Tied the Ground Return Path of the SLINK Cables to a single Ferrite Bead, isolating it from the Digital Ground.	M. Daroy
3.2	06-23-2004	Added Optional Power Supply Circuitry as recommended by the parts Manufacturer. Added Chassis and Digital Ground connection points.	M. Daroy
3.3	06-25-2004	Marked the DNI (Do Not Install) Parts for Assembly BOM generation. Added Mounting Hole connection to the Ground Plane.	M. Daroy
3.4	06-28-2004	Connected J4-4 directly to Chassis Ground and deleted FB6. Changed Audio Output Filter Caps ground connection from AGND_DAC to Chassis Ground. Replaced R49 with FB25 to Chassis Ground.	M. Daroy
4.0	10-20-2004	Connected J6-1 to AGND_DAC through a Ferrite Bead. Added AC bypass Cap for J6-1 to Chassis Ground. Changed Cap Value on C3 and C7 to 10uF.	M. Daroy

NAME

STREETRACER RBX1600

DW N: Mario Daroy ENG: Mario Daroy TITLE STREETRACER RBX1600 SHEET 1 of 9 DWG. No. ST08-01-03D Vytek Confidential and Proprietary 12670 High Bluff Drive, San Diego CA 92130-2013

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VERSION DATE

DESCRIPTION

