USB Power Switch

2 x 700 mA typ. current limit

Host USB

USB Device

Temp Sensor

USB_B Header

Micro SD Card Socket

RTC Battery
5V to 12V

Power In

5V Regulator

Max. Vin = 16V

Undervoltage limit = 4.7V

Measured 425 mohm -- from Barrel Input to 5V test point

with 5.0V at Input

PolyFuse mohms
1500 mA 33V
1100 mA 6V
750 mA 13V

Ferrite beads = 32 mohm

Power Switch

For Production Test
Fixture only

.063 hole

GND

GND

GND

Force Boot to SD card

Push Switch

Enable

Reset

Not Populated

Technologic Systems Date March 15, 2010
Title: TS-8200 Power IN, Push Sw. Jumpers
Rev: Designer RLM Sheet 3 of 6
RS-232 Transceiver

5V --> 3.3V Level shifter

CAN Tranceiver

RS-485 Driver

COM DB9M

For Production Test Fixtures only

Write Protect 8200 Flash

64KB Serial Boot Flash

Technologic Systems Date March 15, 2010
Title: TS-8200 COM port, CAN, RS-485
Rev: Designer RLM Sheet 4 of 6

MXS15 requires 3.0V max on the RXD pins

18k ohm = 18V/us
Two 100-pin Module Connectors

"3.3V" pins supply all power to the module. Apply 4.5V to 5.0V to these pins.

Current drain is < 600 mA (less than 3 Watts)

OFF_ID0_RESET# is an output from the SBC

EXT_RESET# is an input to the SBC used to reboot the CPU. Do not drive active high (use open drain)

50 card signals on connector are wired in parallel with 50 card socket. Only one can be populated with 50 card.

Note 2: Boot from

1: NAND Flash
0: SD Card

MODE1 and MODE2 states are listed prior to OFF_ID0_RESET# denoted as

MODE1 and MODE2 have 2k ohm resistors on the SBC module

Use 1K ohm resistor to GND to set low