Rev. B Changes

Added R77 (1K resistor)
This is because TS-4200 has 1.8V logic level on CAN_RXD
USB Power Switch

2 x 700 mA typ. current limit

Micro SD Card Socket

RTC Battery

Temp Sensor

Zero-suffix with ADDR high bit 12C address at 1001 010

USB Device

USB_B Header

Host USB
5V to 12V

Power In

5V Regulator

Max. Vin = 16V

Force Boot to SD Card

Not Populated

Push Switch

Enable

Reset

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

RS-485 Driver

5V -> 3.3V Level shifter

CAN Transceiver

Write Protect 8200 Flash

For Production Test Fixtures only

64KB Serial Boot Flash
Two 100-pin Module Connectors

"5V" pins supply all power to the module
Apply 6.5V to 5.5V to these pins
Current drain is < 600 mA
(less than 3 Watts)

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

SD Card

Address

MODE1 and MODE2 states
are locked prior to
OFF_BD_RESET# asserted

MODE1 and MOD2 have
pull resistors
to the SBC module

Off the 3.3V pin is 300 mA

Mode 2

Boot PROM

PROM

FPGA JTAG

FPGA DIO

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

Mode 2

Boots from

1

NAND Flash

0

SD Card

CPU JTAG

I2C

Debug

SPI Bus

CAN

Serial Ports

or DIO

MDE2_2B, MDE2_21, MDE2_50
and MDE_51 have a 2K
ohm resistor to GND
(initialize to a logic '0')

Use 1.5K pull resistor
to GND to set low
For Production Test Fixture Only

A/D

Full Scale = 2.500 Volts

Full Scale = 5.000 Volts

Full Scale = 3.125 Volts

Full Scale = 3.125 Volts

Full Scale = 7.500 Volts

Full Scale = 5.000 Volts

Full Scale = 5.000 Volts

R80-R96 0.1% tolerance

P2.0KD80K-ND = .1% 0603

5K Reel is .05 each