2.9V --> 5V

Level shifter

RS-232 Transceiver

RS-485 Driver

Optional Second RS-485

Force Console

If this transceiver is populated, then CAN2 must be de-populated

SP4082 = RS-485 driver

CAN Tranceiver # 1

CAN Tranceiver # 2

CAN Transceiver
USB 1

USB 2

USB 3

SMSC
USB Hub

USB Power Switch

Typical 3.3V current with all ports active is 288 mA (950 mW)

1400 mA typ. current limit
Board ID = 5

10/100 Ethernet

Mini PCIe Socket

WiFi

Force Boot to SD card

Digi/MaxStream ZigBee Radio

CTS# is an output that can be used for hardware flow control

Read pin up to 7V OK supported

Technologic Systems

June 9, 2013

Title: TS-8400 Mini PCIe, Xbee, Ethernet 1

Rev: Designer RLM

Sheet 5 of 10
SMSC 1.8V is not connected to any power rail?
5V to 28V
Input

5V Power Supply (3.0 Amps)

When the input voltage drops below 6.5V the 5V rail will start to drop
(5V supply falls out of regulation)
At 5.5V input, the 5V rail could be as low as 4V
Then at around 5.4V, the 5V rail will "snap" back up due to the "Bypass circuit" turning on
(5V rail could go as high as 5.4V)
Then below 5.4V input, it will track the input with a small voltage drop

5V Regulator Bypass

3.3V Power Supply for LCD
and for radios

Turns on when Vin < 5.4V
Two 100-pin Module Connectors

CN1 and CN2 are the same as on the TS-8200