USB Ports

USB Power Switch

USB OTG Port

Dual Host USB Ports

Internal USB Headers
### COM1 Header

- COM1_TXD
- COM1_RTS
- COM1_RXD
- COM1_CTS
- COM1_485_DAT+
- COM1_485_DAT-
- COM1_485_DAT+
- COM1_485_DAT-
- COM1_485_DAT+
- COM1_485_DAT-

### COM2 Header

- COM2_TXD
- COM2_RTS
- COM2_RXD
- COM2_CTS
- COM2_485_DAT+
- COM2_485_DAT-
- COM2_485_DAT+
- COM2_485_DAT-
- COM2_485_DAT+
- COM2_485_DAT-

### Expansion Header

### RTC Battery

### LEDs

#### 2nd CAN Tranceiver

- TJA1050T
- Not populated
5V Power Supply (3.0 Amps)

5V to 28V Input

Power Conn.

3.3V Power Supply for LCD

5V to 28V

Input

Zener knee at 31-34V

For 1 mA of current

15 Amps @ 45V

Ch7 must be very near Q1

Ch6 must be very near US

GND

VIN
BackLight Power

Zener
Protects against
Open circuit load

200 mA maximum continuous
that LED Backlight is rated at.

1000 nit LCD requires 260 mA
R11 installed will allow 260 mA

Gig MagJack

Board ID = 2 + 192

Speaker Amp

Technologic Systems Date May 19, 2014
Title: TS-8390 Backlight Power Ethernet
Rev: D Designer RIM Sheet 7 of 10

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

Test pins: must be as wired as shown.
16-bit A/D Converter

A/D Header

[Diagram of A/D Converter with components and connections]