**5V Power Supply (2.0 Amps)**

**5V to 28V Power In**

- 5V to 28V
- Power In
- 122 mohm typ.
- C40 must be very near U4

**High-Side Switch**

- Source up to 1000 mA
- 30V --> 3.3V
- Max. Input = 30V
RS-485 Driver

3.3V <--> 5V

RS-232 Transceiver

3.3V <--> 5V

RS-485 Driver

3.3V <--> 30V

Jumper select MOD Bus or RS-232

LS Switch

Sink 500 mA

30V Max

Jumpers

The RS-232 jumpers make
COM port a RS-232 port

The MOD Bus jumpers allows TS-8520
to be a MOD Bus Master or Slave

Never install both RS-232
and MOD Bus jumpers
USB and Ethernet Ports

USB Power Switch

External Dual USB

RTC Battery

SBC

10/100 Ethernet
Two 100-pin Module Connectors

- OFF_BD_RESET# is an Output used to reset all peripherals.
- EXT_RESET# is an Input used to reboot the CPU.
- Do not drive active high (use open drain).

**Boot Strap**

<table>
<thead>
<tr>
<th>Mode</th>
<th>SBC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NAND Flash</td>
</tr>
<tr>
<td>0</td>
<td>SD Card</td>
</tr>
</tbody>
</table>

**Notes:**
- MODE1 and MODE2 are latched prior to OFF_BD_RESET#
- MODE1 and MODE2 have PC selection on the SBC module.