IntelliTouch/SecureTouch 2701RSU Dual Serial/USB Controller

The 2701RSU controller is part # D68054-000. This controller replaces the 2500Uz USB Controller and 2500Sz Serial controller.

| Electrical | Environmental | Physical | Jumpers | LEDs | Approvals |

| Emulation | Drawings | Cables |

Supply Voltage and Current

- +5 VDC, nominal (+4.75 to +5.25 VDC)
- Operating current 75mA, maximum at +5 VDC. Typical power dissipation is 300mW at 5V.
- Inrush current of up to 600mA for 50mS following power on
- Supply must be capable of sourcing 200 mA, minimum.
- Total noise and ripple requirement must be less than 100 mV (p-p) for frequencies below 1 MHz, and less than 50 mV (p-p) for frequencies above 1 MHz.

Serial Interface

- EIA 232E (Serial RS-232), DCE configuration. 8 Data Bits, 1 Stop Bit, No Parity, Full Duplex
- Hardware handshaking: RTS/CTS
- DSR is pulled HIGH (>+3V) by the 2701RSU when connected and powered. DTR can be asserted by the host to interrupt the flow of data from the controller.
- Note that if the application does not monitor CTS, then an interval of approximately 5 seconds should be inserted between the issuance of a reset command and any other command.

Baud Rate

- 9600 (default) and 19200

USB Interface

- The CTR-270100-IT-RSU-00R controller is an interrupt-type, full-speed USB device.

Operating Modes

- Full IntelliTouch SmartSet protocol
- Customer specific protocol
- Initial/ Stream/ Untouch Modes

Touch Resolution

- 4096x4096, size independent

Conversion Time

- Approximately 10 ms per coordinate set

Reliability

- MTBF greater than 1,543,000 hours per MIL-HDBK-217-F2 using the parts stress calculation method for ground benign environment with an ambient temperature of 25°C

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