P R O D U C T B R I E F

JANUS REMOTE COMMUNICATIONS

Terminus T2 Series
Terminal Modem

Description

Our second generation Standard Terminus (T2) products are highly adaptable, cost-effective cellular terminals incorporating an embedded 32-bit Cortex M4™ 210MIPS processor with 1024KB Flash/192KB+4KB RAM. The T2 offers standard serial and USB (OTG) connectivity, 4-20 mA current loops, an accelerometer, built in FPU, built in DSP, and an input power range of 7 -28 VDC. The T2's ability to configure 9 GPIO as CMOS I/O allows for a straight-forward creation of effective embedded applications. Additionally, Native USB OTG support in the Cortex processor allows for development of USB connectivity in applications.

The Terminus T2 series of products expand the reach of M2M connectivity by minimizing investment and reducing total system costs, offering customers a quick and easy integration path to wireless networks. External antenna connections enable the system integrator to meet application specific requirements. Also, the ease of application development and optional GPS integration opens the door for further system cost reduction. All of these combined features make the T2 an excellent solution for any application requiring an enclosed communication modem.

Designed specifically for M2M type applications, the T2 products are ideal for use in all Telemetry and Telematic applications including fleet and asset management, vending, security, alarm monitoring, and e-maintenance.

The T2 is available in GSM/GPRS, CDMA-1xRTT, EDGE, UMTS, HSPA+, EVDO, LTE and Wi-Fi (802.11 b/g/n) wireless networks.

Applications

- Fleet management
- Teleservice
- Security systems
- Telematics
- Telemetry and telecontrol
- Remote monitoring systems
- Remote meter reading
- Vending machines
- POS Terminals

Terminus Models & Ordering

Ordering	Description
HSPA910T2 v1.0	HSPA+/UMTS/EDGE GPRS/GSM (AT&T Certified)
EVDO910T2 v2.0	EV-DO (Sprint Certified)
EVDO910T2 v3.0	EV-DO (Verizon Certified)
CDMA910T2 v2.0	CDMA-1xRTT (Sprint Certified)
CDMA910T2 v3.0	CDMA-1xRTT (Verizon)
CDMA910T2 v4.0	CDMA-1xRTT (Aeris)
LTE910T2 v1.0	LTE (AT&T)
LTE910T2 v2.0	LTE (Sprint)
LTE910T2 v3.0	LTE (Verizon)
WiFi1500T2 v1.0	Wi-Fi GPS Enabled
WiFi1500T2 v2.0	Wi-Fi without GPS

Bulletin	JA15-PB
Revision	05
Date	17 March 2015

Telit
is in it.

Making machines talk.

Features

Environmental

- Operating Temperature: -30°C to +50°C

Physical Interfaces

- Connectors
  - RS-232 9-pin Sub D
  - DC Power 2.1mm barrel jack
  - GSM Antenna Jack (SMA)
  - GPS Antenna Jack (MCX)
- SIM Card
  - 1.8V/3.0V
  - Externally accessible

Enclosure

- Rugged ABS Plastic
- Flame retardant / UL94VO rated
- Size: 2.6" x 3.75" x 1.2" (66mm x 95.25mm x 30.84mm)
- Thru-case mountable with 2-#6 screws

AT Command Set

- Hayes standard AT command set
- Telit proprietary commands

Performance

- Operating Voltage:
  - 7 to 28 VDC
- Data Interfaces
  - Direct access
  - TCP
  - UDP
  - SLIP
  - PPP (using direct access)
  - AT commands

Approvals – Certifications

- FCC
- CE
- Carrier

Python Application Resources

- Available on some versions

Processor Features

- 32-bit Cortex M4™ 210MIPS processor with 1024KB Flash/192KB+4KB RAM.
- A USB OTG full-speed with high-speed capability
- Memories
  - MAX 256K of Flash memory
  - 512 bytes of OTP memory
  - Up to 96 + 4 Kbytes of SRAM
- Clock, reset and supply management
- Low power
  - Sleep, Stop and Standby modes
- A/D converters
- D/A converters
- On Board Timers
  - Up to twelve 16-bit and two 32-bit timers, up to 120 MHz, each with up to 4 IC/OC/PWM or pulse counter and quadrature (incremental) encoder input
  - 1 UARTs Modem Control
  - 1 SPI
  - SDIO
  - USB 2.0 full-speed device/host/OTG controller with on-chip PHY

GPS Receiver

- Standard GPS
- gpsOne®
- NMEA Data
- GPS fix on demand
- Dedicated GPS antenna connection for optimal GPS performance with active antenna support

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