FLEETRACKERS product specifications

HE910FT

PENTABAND FLEET MANAGEMENT AND M2M

M2M-TRACK series

M2M Track

Description

Our M2M Track is highly adaptable, cost-effective cellular device incorporating an embedded 32 bit Cortex M3tm 150 MIPS processor with 256KB Flash/96KB+4KB RAM. The M2M Track offers standard serial and USB) connectivity, 4-20 mA current loops, an accelerometer, and an input power range of 7-28 VDC. The M2M Track'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 M2M Track product 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 requrements. 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 M2M Track excellent solution for any application requiring an enclosed communication modem.

Designed specifically for m2m type applications, the M2M Track is ideal for use in all Telemetry and Telematic applications including fleet and asset management, vending, security, alarm monitoring, and e-maintenance.

The M2M Track is available in GSM/GPRS, CDMA-1XRTT, EDGE, UMTS, HSPA+, EVDO, AND Wi-Fi (802.11 b/g/n) wireless networks.

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Interface Requirements

Host protocols: Commands, UDP API, FOTA

Internal Protocols: UDP API,TCP API,UDP

PAD, TCP PAD, SLIP, PPP (direct access)

API Control/Status: ATCommands, UDP API,

TCP API, AT Commands Over SMS

Housing

Rugged ABS Platic
Flame retardant / UL94VO rated
Dimensions: 2.6"X3.75"X1.2" /(66x95.25x30.84mm
Thru-case mountabe with 2-#6 screws

Processor Features

-Core: ARM 32-bit Cortex –M3 CPU memory protection unit, 150 DMIPS/1.25 DMIPS/MHZ (Dhrystone 2.1)
- A USB OTG full-speed with high-speed capability
- Memories:1. MAX 256K of Flash Memory, 2. 512 bytes
-of OTP memory, 3. 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 UART´s Modem Control, 1 SPI , SDIO, USB 2.0 full-speed device/host/OTG controller with on-chip PHY

Certifications

FCC, PTCRB, IC (North America)
CE, GCF (Europe)
RoHS Complaint
Carrier: AT&T, Verizon, T-Mobile

Power Specifications

DC Voltage: Supports 7V - 28V Operation
Cellular Operating Power (Typical) @ 14.2 VDC:Avg(mA)
Idle (GPS On): <54 mA (Registered) Off: <33mA Reg.
Low Power Mode: <1.3 mA

GPS Functionality

GPS Protocols: NMEA data, gpsOne, GPS fix on demand, Dedicated GPS antenna connection for optimal GPS performance with active antenna support.

Physical Interfaces

Connectors:
RS-232 9 – pin Sub D
DC Power 2.1 mm barrel jack
GSM Antenna Jack (SMA)
GPS Antenna Jack (MCX)
Sim Card: 1.8V/3.0v

Environment

Operating Temperature -30°C to +80°C
Humidity: Up to 95% Non-Condensing
Vibration: In Accordance With SAE J1211

Product Features

Supported Frequencies GSM/GPRS&EDGE: 850,900,1800, 1900 UMTS/HSPA: 800/850*, 900, AWS 1700, 1900, 2100 MHz. * B6 & B19 (800MHz) are a subset of B5(850 MHz and supported as well. HSPA+ DATA UP TO 21.0 Mbps downlink /5.76 Mbps uplink. Quad Band GPRS AND EDGE class 33. Sim access profile. 3GPP release 7 compliant .

Digital Voice and SMS
IP stack with TCP and UDP Protocol
Standard and extended AT command Set
Telit proprietary commands, Pyton Application Resources

Applications

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

Tracking GPS solutions
Av. Homero # 1406-1 Col. Polanco
5580-4734

FLEETRACKERS®