Piccolo STX - Vehicle tracking made simple and affordable by innovation

Modular, easy to integrate and inexpensive to customize to your needs

I/O
Input/Output

Up to 6 Digital
Temperature Sensors

Battery
back-up

CANbus,
OBDII/J1939
J1708

Piccolo STX

Bluetooth

HOS

Driver ID
Dallas Keys or
Passive RFID

Driver
Behavior

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Piccolo STX product specifications

All in one small package with gps and cellular antennas, optional external GPS and cellular antennas

Technical Specifications
• Network availability – 2G GSM/GPRS or 3G HSPA
• Frequency bands - Quad-Band (European 900/1800, American 850/1900)
• Enclosure: Flame retardant ABS/PC
• Flame rating UL94V-0
• GPS Technology - MTK GPS Technologies - 66 channels
• Dimensions: 3.36" x 2" x 1" LWD (85mm x 52mm x 25.4mm) Additional 0.4" (10mm) on each side for mounting brackets
• Weight: 3.17 oz.(94gr) without batteries

Environmental Specifications
• Operating temperature: -40° to 176° F (-40° to 80° C)
• Storage temperature: -40° to 221° F (-40° to 105° C)
• Humidity: 0 to 99% 110F (40C), non-condensing
• Shock/Vibration/Mechanical: meets or exceeds EIA standard RS-316B: 3G (operating), 20G (non operating) XYZ 3directions. Meets SAE J1455 (non operating) XYZ 3directions.

Electrical Specifications
• Power source: 6DC-32VDC tethered to vehicle battery or portable with cigarette plug connector
• ESD 4kV contact, 15kV air
• When external power is disconnected, the unit automatically switches to back up 1800mA/3.7 VDC lithium rechargeable battery/fully charged can send up to 1200 GPS locations.
• Protection: internal resettable 1Amp fuse

Current Consumption
• Transmit mode: 200mA at 12VDC
• Running mode: 70mA at 12VDC
• Standby (Hibernation) mode: 20mA at 12VDC (when waiting for external event with GPS on)
• Sleep mode: 5mA - (switching to sleep mode automatically when engine is off and/or when external power is disconnected)

Base Features
• Digital Inputs - Four contact events: two ground sense and two 5VDC – 32VDC positive sense
• Analog Inputs – one 0-5VDC
• Digital Outputs – two open collectors 500mA
• Internal analog temperature sensor

Expansions
• Add three digital inputs for a total of four ground sense and two positive sense
• Add one analog input for a total of two
• Add RS-232 serial port for a total of two.The aditional RS-232 port can support RS-485.

Options
• Vibration Sensor – sensitivity adjustable for automatic security theft alarm
• 3D Accelerometer – for tilt detection and extreme driving condition reporting such as sudden acceleration,sudden lane crossing, sharp turns, and sudden brakes
• Driver identification via iButton (Dallas key or Passive RFID)
• Up to 6 temperature sensors via iButton
• Internal lithium 1500mA rechargeable battery
• Can bus OBDII/J1939, or J1708
•Bluetooth 4.0 for HOS tablet communication

Installation
• In cabin installation (usually under the dashboard when dashboard is plastic)
•Plug and Play installation with OBDII/J1939 connector prewired to the STX wireharness

LED Indicators
• GPS: Off when service is disabled, blinking green when operating normally, blinking orange when GPS current reading is invalid, blinking red on GPS error
• Modem: Solid green when modem is registered, off when no signal is present or unit is off
• Data: Solid red when data is waiting to be transmitted, off when no data is in the buffer
• Power: Solid green when operating normally, off when unit is off, turning to orange when charging the internal battery

Functional Specifications (partial)
• Sends GPS location every X seconds/minutes and/or every Y miles/km or any combination between time and distance based on speed
• Idle transmission – when the vehicle is idle (stopped) for a predetermined time period, the unit can switch to transmit in "idle mode," for example every 4 hours instead of every minute while moving
• Event logs – Events such as engine on/off, vibration alarm, door open/close are sent with a time stamp of the event and may be configured remotely and sent with or without the exact GPS location taken at the time of the event
• Driver identification - Authorized driver ID's for the specific vehicle are downloaded to the unit OTA and only the driver that has the matching Dallas key ID is authorized to start the vehicle, and the driver ID is sent to the control center database.
• Firmware download via USB or OTA (Over the Air)
• Configurable via USB or OTA
• Highly compressed OTA, UDP communication packaged with MidLink Middleware and "Plug & Play" API or DLL for quick integration into any third party software
• Or direct TCP/IP communication OTA,(no Middleware) packaged with "Plug & Play" API for quick integration into any third party software
• OTA diagnostic tools
• Vibration sensor sensitivity OTA configurable
• Tilt detection and driver behavior violations sensitivity configurable OTA
• Store and Forward – The unit can store up to 5000 events when out of cellular coverage then send them automatically when back in cellular coverage
• Geo-fence - auto alarm with GPS location when the unit moves in and out of a predetermined zone
• Tow detection – The unit detects when the vehicle is moving while the ignition is off
• Starter killer – when the vehicle is stolen, a command can be sent OTA to kill the starter so once the vehicle is stopped and the ignition is turned off it cannot be turned on again (for safety reasons in most countries it is illegal to OTA turn off the engine or gradually decelerate when the vehicle is moving)
• Battery power value is sent automatically OTA to the control center database with every GPS data
• Battery saving mode - auto switch to deep sleep mode when engine is turned off and auto wake up when engine is turned on or on vibration (this feature does not require back up battery)
• OTA programmable via SMS
• Sends cell based location in addition to GPS coordinates
• Accurate driven distance
• External accessable SIM card holder with security lock

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