



Vista Trax TS15 allows you to comply with all expectations concerning functionality and reliability required by security and logistics applications nowadays. Its small dimensions and low power consumption level, along with powerful hardware, enable you to take advantage of the following characteristics:

Intended to be Connected:

The Vista Trax TS15 has 5 serial ports, a CAN port, and an I2C port; giving it the capability of a powerful computer providing vast integration possibilities with car and truck computers; connecting temperature measurement modules, i-Button module, GARMIN display and cameras.

Unification of Powers:

48 channel SiRF IV with Jammer Remover, Quad Band Telit Module with Jammer Detection and Python Script, CPU ARM Cortex™-M4 - 32bits. The combination of these powerful components gives the Vista Trax TS15 a unique position in the marketplace.

Flexibility:

The Vista Trax TS15 has a powerful programming language that allows you to perform mathematical and logical operations, even complex logical operations. If that isn't enough, you can even program your own functions through Python with a 2MB program memory and 1.2MB RAM. "This is not your father's GPS system."

LOG MEMORY for 45,000 reports, microSD slot of up to 8GB that allows you to save 5 years of second-to-second information.



RELIABILITY
SECURITY
SOLUTION



Real-Time GPS Tracking Fleet Management

Distinctive Characteristics:

- | | | |
|------------------------------|---|------------------------------------|
| 1 Integrated Intelligence | 6 Messages Control | 10 Digital Inputs and Outputs |
| 2 Robustness and Reliability | 7 Voice Calls | 11 Analog Inputs |
| 3 Connectivity | 8 Access Code | 12 3-Axis Motion Sensor |
| 4 Communications Control | 9 Authenticity of Reports and Messages Sent | 13 Storage Capacity |
| 5 Management and Logistics | | 14 BCM (Battery Charge Management) |



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Technical Specifications

Power Supply	8 to 38 VCC
Internal Backup Battery	Internal model BL-5C- Lithium-Ion Battery
Power Supply Protections	Up to +100 VCC in continuous form Up to -400 VCC in continuous form
Consumption	30-40 mA in active mode (24 VCC) < 8 mA (turned-off GPS) < 0.25 mA in total sleeping (Kernel Enabled) mode
BCM (Battery Charge Management)	Yes (configurable)
Operating Temperature Range	-20°C to +70°C
Humidity	95% at 60°C
Case	ABS (shock-resistant design)
Dimensions	72 mm x 73 mm x 22 mm
Weight	240 grams
GPS Module	Sirf Star IV 48 channels 163dBm of sensibility Less than 35 second cold start (average) Position precision: 10 meters, 2D RMS -2.5 meters, 2DRMS, WAAS enabled Speed precision: 0.01 m/s Time precision: 1us synchronized with the time of the GPS
GPS Antenna	Active 27 dB (5 mts. of cable)
Cellular Module	Quad Band GSM / GPRS (GSM850, EGSM900, DCS1800, PCS1900)
GSM Antenna	Miniature QBAND (Ultra-thin option, self-adhesive, 2.5 mts. of cable)
Dual SIM	Yes - selectable by means of internal command
MicroSD	Compatible with SDHC memory (Secure Digital High Capacity)
Status Indicators	3 (power supply, GPS and GSM / GPRS)
Serial Ports	5 (TTL) 2 Full Duplex (1200 to 115200 bps) 2 Only RX Configurable (1200 to 9600 bps) 1 Full Duplex for interaction with Python (1200 to 115200 bps) Compatible with USB adapter
I2C Port	1 - connectivity with up to 4 different modules simultaneously
CAN Port	1 (Multi-Protocol and BAUD configurable up to 1 MBaud)
Digital Inputs	8 6 - protected up to 100 VCC 2 - configurable TTL
Analog Inputs	2 (0-40 VCC) (protected up to 100 VCC)
Inputs for RPM Measurement	1 (protected up to 100 VCC)

Fleet Management

Outputs	4 OC NPN (400 mA Max.)(non-volatile state)
Peripheral Output Supply	Output voltage = 3V3 Maximum charge current = 300 mA Charging protection Temperature protection Non-volatile activation status
3-Axis Motion Sensor	1 (sensibility adjustable)
Connectivity with Video Cameras	Up to 2 cameras simultaneously
Configurable Events	196
User-Configurable Reports	16
User-Configurable Binary Reports	8 (up to 64 BYTE = 512 BIT)
User-Configurable	100
Triggers/Comparators	
Analog Windows	8
Abrupt Braking Triggers	4
Change of Course Triggers	8
Time and / or Distance	32
Triggers	
Time Control (date/time) Triggers	8
Speed Limit Triggers	8
RPM Limit Triggers	2
Incoming Call Detection (Caller ID) Triggers	8
Time Counters (seconds)	32
16 Bits General Use Counters	100 (0 to 65535) (84 non-volatile)
High-Range General Use Counters	100 (0 to 999999999) (84 non-volatile)
General Use Records for Calculations	100 (84 non-volatile)
Configurable Printout Format	Supported Mathematical Operations : = : Assign Value + : Addition - : Subtraction * : Multiplication / : Division % : Module A: Logic Operation AND O: Logic Operation OR X: Logic Operation XOR Q: Square Root ^ : Power
Pulse Counters	4 (0 to 4294967295.999) (non-volatile, with 1/1000 resolution and configurable adjusting factor)
General-Purpose Status Flags	100 (84 non-volatile)

Real-Time GPS Tracking

System Status Flags	More than 137
Geographical Reference	100
Points (WayPoints)	
Geographical Zones	32 (up to 32 point resolution per zone)
GSM Band Country Code	8
Triggers (MCC)	
Incoming Data Processing	20 totally configurable triggers Binary texts or data incoming from any data port can be processed Ex: Serial Ports (TR0, TR1, TR2, TR3 or TR4) I2C port / GPS listener port / GSM modem listener
Odometers	4- A AND B 2 total (resolution in meters) 2 partial (resolution in meters)
Integration with Maps on the WEB	Google map and Yahoo map
Dynamic Variables Assignment	Configuration of multiple assigned variables to different device parameters in the same command
Integration with GARMIN	Control of data packets for GARMIN fleet-management through FM command
GeoGrids (Geographic Grids)	Can load up to two 4GB maps
Encrypted Report	PX Report with encryption key of up to 32 characters
Access Protection	Up to 8 character password
Driver/ User Management	Information about: - Date and time of session - Session duration - Idle engine timer - Running time - Distance travelled (resolution in meters) - Three general-purpose timers - Change in mode or state - Possibility to load a list of up to 64 enabled codes
GPRS Connection Capability	2 configurable IP destinations
SMS Connection Capability	2 configurable destinations
GPRS-Submitted Data Protection	Evolutionary digital encryption (64 bit) encrypted with 64 bit KEY (independent for IP0 and IP1)
Settings and Command Protocol	GAP (G ASCII Protocol) Supports ACP245 Protocol (only in special version)
DNS Name Resolution	Yes
GSM Cells Status Reports	Yes
Number of Simultaneous GPRS Connections	5

Vista Trax TS15

Storage Capacity	LOG destination = 45056 reports 110592 reports (optional, to special order) Automatic download in TR0, TR1, IP0, IP1 SDM destination = up to 134217700 reports Automatic download in TR0 , TR1 , IP0 or IP1 SDI destination = up to 524100 images IP0 destination = 250 reports IP1 destination = 40 reports SM0 destination = 20 reports SM1 destination = 20 reports Memory of the last 320 sec. running Buffer of 8 incoming text messages Buffer of 8 outgoing text messages
Compatibility for Sending	SkyWave (Inmarsat)
Commands and Messages via Satellite Modem	ORBCOMM
Firmware Update	Through serial port GPRS via OTA (over the air) (redundant cross-check system)
Access to SIM Card Data	Yes
Python Programming	Integrated "Python Script" Interpreter (Engine V 1.5.2+) Available Memory: 2 MB Flash and 1.2 MB of RAM
Processor	ARM Cortex™-M4 - 32 bit
Compatibility with:	TraxDSP multifunction graphic display TraxCAM video camera Temperature measurement module iButton module CAN module receiver / processor 3-axis accelerometer module Fuel consumption sensor in telemetric data mode

