











TRISTAR_{Inc.}

Engineering, Product Development & PLM Experts

IoT PRODUCT VIGNETTE ACTIVITY

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VEHICLE TELEMATICS **NETWORKS**

SMART AUTONOMOUS SOLUTIONS

TELTONIKA TELEMEDIC TELTONIKA EMS

YEARS
OF IOT BUSINESS

150+
COUNTRIES
SELLING 100+ DIFFERENT PRODUCTS

1000+ EMPLOYEES

IN 17 OFFICES AND 11 COUNTRIES

10M+
DEVICES
ALREADY DEPLOYED













Unit is perfect for valuable goods tracking, wire reels, tools, construction equipment, containers, wagons, scissor lifts and many other non-powered assets.

TAT100 – brand new Asset Tracking device with internal battery which could last up to 1 year while sending data once per day. TAT100 is a device for asset tracking and additional protection against thefts of valuable goods, as well as it could be used in wide range of applications from tools tracking to container tracking. It is a robust waterproof solution with extremely easy mounting. The usage of the battery mainly depends on how long you want to monitor your goods. The device uses low power BlueNRG-232 chipset, TM2500 module, internal GNSS, GSM antennas, 2 low self-discharge Li-SOCI2 batteries.















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Physical Components	Reg

Dimensions	78 x 63 x 28 mm (L x W x H)
Ingress Protection Rating	IP67
Certification & Approvals	
Regulatory (pending)	CE(RED), EAC, RoHS, REACH













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Hardware				
Module	Teltonika TM2500			
Technology	GSM/GPRS/GNSS/BLUETOOTH 4,0 + LE			
GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS			
Receiver	33 channel			
Tracking sensitivity	-165dBm			
GNSS receiver start times	Hot < 1s, Warm < 25s, Cold < 35s			

Software	
Scenarios	Records sending by schedule, Tilt detection, Over Speeding detection, Jamming detection, Auto and Manual Geofence
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Data sending	Main, Duplicate and Backup servers
Configuration and firmware update	FOTA Web (cloud based solution) Teltonika Configurator (USB, Bluetooth)
Protocols	UDP/TCP/SMS
Security	Configuration password SMS login and password Authorized GSM numbers list
Time synchronization	GNSS, NITZ, NTP

















ASSET TRACKER^{EASY}

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GNSS receiver start times	Hot < 1s, Warm < 25s, Cold < 35s
Accuracy	< 3 m
	Quad-band GSM 850 / 900 / 1800 / 1900 MHz
Cellular	GPRS Multi-Slot Class 12 (up to 440 kbps)
	GPRS Mobile Station Class B
Power	2x 2200mAh extremely low self-discharge Li-SOCI2 batteries 3.6V (15.84 Wh)
Antenna	GNSS antenna (Internal High Gain), GSM antenna (Internal High Gain)
Interface	Ultra-low-power Bluetooth BlueNRG-232 chipset, 2.0 micro-USB, Internal eSIM slot, 128 MB internal flash memory (220'000 records), "Reset" button on PCB for unpairin
Sensors	Accelerometer













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CONSTRUCTION SITE MONITORING

CONCERNS

Construction equipment theft is a major concern worldwide. This is a very low-risk and high reward job for thieves. And only less than 25% of stolen equipment is recovered each year. This was already recognized a while ago as a significant problem all over the world – Europe, US, Canada, Australia, Japan. Some of the equipment cost as much as 150.000 EUR. Backhoes are somewhere in between of 40.000 EUR to 60.000 EUR, generators from 25.000 EUR to even 150.000 EUR. And the total evaluation of stolen equipment per year averaged from ~1,2B EUR to ~4B EUR in above mentioned regions. At the same time, it is difficult to evaluate the actual number because not all of the thefts are accounted and officially registered.

And that is a headache for business owners of construction sites – how to manage all the machinery, assets, equipment, how to protect that against possible theft and make sure nothing is missing.















CONSTRUCTION SITE MONITORING

WHY TELTONIKA?

Either it is a powered or non-powered unit, steady or moving. Our battery powered solution is the most effective way to ensure that you always know where are your valuable goods. Bulldozers, graders, scrapers, backhoes, excavators and their buckets, diggers, cranes, pavers, mixers, tools, power generators, forklifts and many more.

Take full control of your assets, save your money and resources.







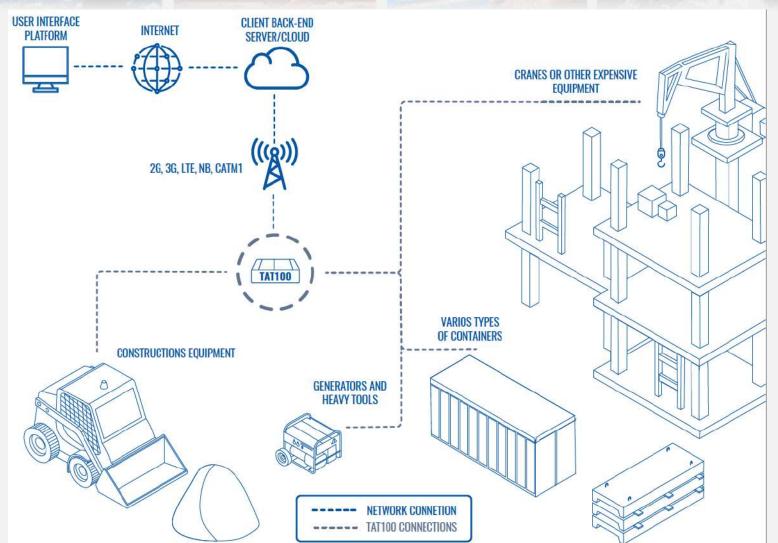








TOPOLOGY



Thankyou TRISTAR Confidential & Proprietary **ATRISTAR**