




Low-cost Low-power IEEE 802.15.4 compliant 2.4 GHz Active Wireless Devices

PervTrack Locator Tag:

Attached to an asset or carried by a person to track them accurately in real time.

Common Key Features:

- Several years of battery life
- Intelligent power management
- Choke-point detection capability
- Over The Air parameterization
- Multiple mounting options




LT-201	LT-201M	LT-201T
		
Features:		
<ul style="list-style-type: none"> • Device dimension: 52 X 32 X 15 (mm) [smallest active tag for tracking people and asset] • Remotely activated customizable LED signals 	<ul style="list-style-type: none"> • Device dimension: 68 X 43 X 18 (mm) • Remotely activated customizable buzzer and LED signals • Call button for emergency and alert notification 	<ul style="list-style-type: none"> • Device dimension: 68 X 43 X 18 (mm) • Remotely activated customizable buzzer and LED signals • Tamper detection mechanism to generate real time alarm • Designed to be worn around the wrist or mount firmly with assets
Typical applications:		
token tag, asset tag	human tag with both way messaging	asset tag with tamper-detection capability

PervTrack Universal Tag:

These tags can be used both as a locator tag and sensor tag where the sensors are attached externally through standard inbuilt interface.

Common Key Features:

- Several years of battery life
- Intelligent power management
- Choke-point control capability
- Over The Air parameterization
- Multiple mounting options
- Remotely activated customizable audio and LED signals
- Call button for emergency and alert notification
- Telemetry capabilities
- Provision for external power supply with battery backup

UT-201Pro	UT-201	UT-201i
		
Features:		
<ul style="list-style-type: none"> • Device dimension: 75 X 65 X 20 (mm) • Serial port (RS232) interfacing provision 	<ul style="list-style-type: none"> • Device dimension: 85 X 48 X 16 (mm) • Rugged, intrinsically-safe design • IP65 compliant encasing (optional) 	<ul style="list-style-type: none"> • Device dimension: 105 X 58 X 18.5 (mm) • Serial port (RS232) interfacing provision • Rugged, Intrinsically-Safe design • IP65 compliant encasing (optional)
Typical applications:		
asset tag	miner's tag, outdoor asset tag	vehicle tag, industrial tag

PervTrack Sensor Tag:

ST-201



Placed at different regions within the monitoring zone to observe different environmental conditions and communicate them to gateway via Localizers in real time.

Common Key Features:

- Device dimension: 125 X 67 X 61 (mm)
- Provision for external power supply with battery backup
- Multiple mounting options
- The current sensor tags are available with following sensors:
 - ✓ Temperature, humidity and air quality monitoring/ Smoke detection
 - ✓ Carbon Monoxide (CO)
 - ✓ Carbon dioxide (CO₂)

PervTrack Actuator Tag:

AT-201



Placed at strategic locations, these tags can be used to perform actuation operations (e.g. water sprinkler, fire extinguisher, solenoid valves etc) which are controlled through the PervTrack Software suite.

Common Key Features:

- Device dimension: 55 X 40 X 90 (mm)
- Customizable LED signal
- Multiple mounting options

PervTrack Localizer/ Router:

Placed at strategic locations, helps to identify the location of tagged objects within the tracking and monitoring zone, supports multi-hop communication of tag/ sensor data to remote monitoring station.

Common Key Features:

- Auto-configuration switch
- Customizable multicolor LED signals
- Provision for external serial interface to use GSM / GPRS

High Power or Low Power Indoor Localizer: L-20Hi / L-20Li



High Power or Low Power Outdoor Localizer: L-20Ho / L-20Lo



Features:

Device dimension: 120 X 56 X 31 (mm)

- Device dimension: 127 X 75 X 45 (mm)
- Provision for external power supply with battery backup
- IP65 compliant
- Multiple mounting options

PervTrack Gateway:

G-201



Enables Tags, Sensors and Localizers to form an IEEE 802.15.4-based mesh network enabling both-way data communication. It is connected to a host system to collect tag/ sensor data from remote monitoring zone.

Common Key Features:

- Device dimension: 140 X 62.7 X 30.5 (mm)
- One reset switch
- Customizable LED signals
- Provision for external power supply with battery backup
- Multiple mounting options

PervTrack Device Specifications

Operating Voltage	2.8 to 3.6 Volts DC			
Current Requirement	Device Type	Transmit Current	Receive Current	Sleep Mode
	High Power	185 mA	32 mA	10 µA
	Low Power	32 mA	32 mA	10 µA
Power Options	3V DC and 220V AC adaptor jack			
RF Device Range	Device Type	Indoor Range	Outdoor Range	
	Low Power	30m	100m	
	High Power	160m	1600m	
Protocol Stack	IEEE 802.15.4			
Operating Frequency	2.4 GHz (16 channels)			
Operating Conditions	-10 to 60 °C			
	10 to 90% RH			