

T12 Bi-Directional Asset Tag



- Locate assets in real time
- Leverage standard Wi-Fi networks
- Bi-directional communication for over-the-air updates
- Tamper-proof
- Optional call button
- Rugged for industrial use

The T12 Bi-directional Asset Tag is a component of Extronics Advance's suite of enterprise visibility solutions for locating assets in real time. The T12 Tag offers a flexible, scalable way to track assets across a wide variety of applications.

The battery-powered T12 Tag can be attached to a variety of assets such as maintenance equipment, assembly parts, or tools. Assets are accurately tracked in real-time, enabling you to reduce search times, control inventory, and carry out efficient preventive maintenance.

In addition, the T12 Tag can be used for entry/exit point detection, call-button alerting, and more.

Standard Wi-Fi networks

The T12 Tag data is received and processed via standard Wi-Fi access points, keeping infrastructure costs low and installation simple. As with all our tags, location is determined through a unique beaconing method that keeps network impact low, and ensures scalability.

Chokepoint detection

When combined with Extronics Advance Exciters, the T12 Tag provides instant notification when a tagged asset passes through an entry/exit point, such as a gate, doorway or other tightly defined area. Additionally, the tag's behaviour can be automatically modified while passing through one of these chokepoint, such as activating or deactivating the tag, or changing the tag's transmission rates to accommodate different usage scenarios.

Bi-directional communication

The T12 tag uses lightweight beaconing (for standard messages) and bi-directional Wi-Fi communication with full network association and authentication (for advanced applications).

Once deployed, the tag uses its bi-directional functionality to receive firmware and configuration updates from the MobileView visibility software. This removes the need to manually collect, update and re-deploy tags in the field.

The tag can operate with up to four different network SSIDs in a secure or non-secure mode and is able to store up to two network IPs. The tag also supports both static IP configuration and DHCP.

Visual identification

The T12 Tags include a dual-colour LED, which enables distinct visual indications for specific use cases, such as identifying a particular asset.



Optional call button

The tags can include a call button that can trigger an event in MobileView, such as emergency alerting or par level events. MobileView events can be defined according to specific button press patterns (such as long press, short press and double press).

Tag management

T12 Tags are easily configured and activated wirelessly using the Tag Manager BD application and a Tag Activator device, which are part of the Hardware Manager Kit. The tags can then be reprogrammed using bi-directional communication via MobileView.

Flexible mounting and usage options

A wide variety of mounting options are available for the T12 Tags, such as cradles, mini-cradles, adhesives, and ties. An optional cradle allows indirect mounting of the tags on a wide variety of assets in various environments.

Tamper proof

The T12 Tag includes an advanced tamper-proofing mechanism for security and theft prevention, which triggers an immediate alert if removed or tampered with in any way.

Long battery life with motion sensor

The T12 Tag has a user replaceable battery that provides up to 3 years battery life, depending on configuration. The tag is able to report its battery level which is displayed in MobileView. The T12 Tag also has a motion sensor to conserve battery life when the tag is not in motion.

Rugged performance

The T12 Tag passes internal testing to IP67, preventing dust ingress and withstanding water immersion up to 1 metre (3 feet).

Specification

Range	Outdoor range: up to 200m (650ft) Indoor range: up to 80m (260ft)
Dimensions	50mm x 45mm x 22mm (1.96in x 1.8in x 0.86in)
Weight	44g (1.55oz)
Radio	802.11 b/g/n compliant (2.4GHz) Low frequency receiver for chokepoint detection (125kHz) Transmission power: Up to +19dBm (~81mW) Patented clear channel sensing avoids interference with wireless networks
Security protocol	WPA2 security with AES encryption
Programmability	Tag configurations* Transmission channels IP Settings *After initial setup, configuration changes are done over-the-air via MobileView.
Temperature	-25°C to +60°C (-13°F to +140°F)
Humidity	0 to 95% RH non-condensing
Ingress Protection	IP67 (company internal testing)
Battery	3.0V Lithium manganese dioxide battery* (replaceable) Battery life: Up to 3 years, depending on tag type and configuration. *Use only approved batteries. See the T12 Asset Tag User Guide.
Radio certification	FCC Part 15, sub-part C class B, sub-part B, EN 300-328, EN 300-330, EN 301-489, RSS 210 (Canada)
Safety certification	CE, cTUVus (EN60950), EN 60601-1-Rev3





T12 mounted on a pole



T12 with mini cradle



T12 mounting cradle

Ordering Information:

Description

T12 Bi-Directional Tag with Tamper Proof Switch

T12 Bi-Directional Tag with Call Button and Tamper Proof Switch

Order code

TAG-1200-T

TAG-1200-CT

Accessories:

T12 Cradle (50-Pack). For screw or strap mounting of T12 tags

T12 Tag 3V Lithium Batteries (25-Pack)

T12 Tag 3V Lithium Batteries (50-Pack)

Short Tamper Switches (100-Pack)

Long Tamper Switches (100-Pack)

Velcro Attachment Kit Pair (50-Pack). Includes both sides of Velcro

Adhesive Tape Attachment Kit

Hardware Manager Kit

TAC-120

TAC-437

TAC-438

TAC-341

TAC-340

TAC-030

TAC-031

HWM-1000

