

AT5112 Transportation Tag

FEATURES

- Stores up to 10 alphanumeric characters (60 data bits), factory programmed or laser etched as specified
- Can be programmed to emulate Wiegand access control cards using 26- to 54-bit Wiegand formats
- Indefinite service life because circuits are energized by a small portion of the RF signal
- Uses the RF beam to energize tag circuitry, which limits tag range. Reduces competition with other tags in nearby areas and enhances system discretion within 0.6 to 3 m (2 to 10 ft) diameter reading areas



The AT5112 Transportation Tag is a beam-powered field disturbance device used in 902-to 928-MHz radio frequency (RF) band applications involving exposure to harsh environmental conditions.

The AT5112 is ideal for mounting on vehicle chassis, intermodal containers, or in any environment requiring a durable, weathertight tag.

The AT5112 contains electronically programmable circuitry activated by the RF beam that is broadcast by a system antenna.

The AT5112 encodes the signal received from an Amtech®-brand reader system with an identification number or a data message. The encoded signal is reflected (backscattered) back to the Amtech reader system.

The AT5112 can be read by AI1600 series readers.

AT5112 Transportation Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Typical Working Range

1.5 to 3 m (5 to 10 ft)

Range depends on system parameters.

Polarization

Parallel with longer side

SOFTWARE FEATURES

Data Capacity

Up to 10 alphanumeric characters (64 actual bits, 60 user bits) or Wiegand 26- to 54-bit formats

POWER REQUIREMENTS

Power Source

Beam powered

LIFE EXPECTANCY

Service Life

Indefinite

PHYSICAL

Dimensions

Size: 23.6 x 6.0 x 1.75 cm
(9.3 x 2.38 x 0.69 in)

Weight: 160 g (5.7 oz)

Case Material

Weatherproof, polycarbonate alloy, UV stabilized

Mounting Surface

Any smooth metal surface

Where mounting surface is non-metallic or irregular, the AT5110 may be mounted to a metal backplate attached to the surface of the vehicle or object to be tagged.

Mounting Method

Fastener Mounting: The AT5110 may be mounted directly to any smooth metal surface using blind rivets, bolts, or screws.

Tape Mounting: For certain applications where the integrity of the mounting surface cannot be compromised, the AT5112 may be mounted using double-sided tape.

ENVIRONMENTAL

Operating Temperature

-40°C to +85°C
(-40°F to +185°F)

OPTIONS

Tape Mount

The AT5112 tag can be ordered with double-sided tape attached.

Custom Colors

The standard color is gray. The AT5112 tag can also be custom ordered in a range of colors. Special conditions may apply. Contact your TransCore representative for information.

DOCUMENTATION

Technical Notes: Mounting Transportation Tags with Tape



For product information call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6486

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