XT-5 UHF Reader

Automatic Vehicle Identification

A world leading reader

The XT-5 is our most advanced integrated reader to this date. It has an advanced radio design with high output power, self-jammer cancellation (SJC) and control of antenna polarization (which can be set to vertical, horizontal or circular). It supports both PoE+ (Power over Ethernet) and conventional power supply. It has a high performance processor running Linux and supports a SDK (Software Development Kit). The bright LEDs for visual indication are implemented as RGB (Red/Green/Blue).

An external antenna can be connected, and also this external antenna supports polarization control and RGB LEDs, all using a single RF cable connected to the reader.

Unmatched flexibility

The XT-5 is easy to install, configure and use. The reader is intended for outdoor usage and is well suited for the toughest environments. XT-5 has a wide number of built-in interfaces including Ethernet (2 separate ports), RS232, RS485 and Wiegand/Magstripe as well as the option to add an additional external antenna. All this together with the SDK supporting development of customer specific software give an unmatched flexibility.

Using a unique firmware implementation the TagMaster readers in a single installation communicates real-time information (per separate antenna) to accurately distinguish and discriminate tags from adjacent lanes using the Distributed Cross Read Elimination (DCRE) feature. The readers also have Distributed Duty Cycling (DDC) ensuring that adjacent readers/antennas do not read simultaneously and thereby achieving absolutely optimal reading conditions.

RAIN compliant

The TagMaster XT-5 is fully compliant with RAIN. The XT-5 includes TagMaster's SecureMarkID® tag format, which is developed to ensure that each UHF tag has a unique identity which is difficult to duplicate. The XT-5 combined with our SecureMarkID® tags provides a higher level of security.

PART NO. INFORMATION

XT-5 eu	152800
XT-5 us	152900
External XT-5 eu antenna	163810
External XT-5 us antenna	163820
Universal Mounting Kit (optional)	193600
Antenna Cable 10m	196000

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TECHNICAL INFORMATION

Operating frequencies	**XT-5 eu:** 865.6-867.6 MHz, Europe 865.0-867.0 MHz, India 866.0-867.6 MHz, Russian Federation **XT-5 us:** 902.0-928.0 MHz, Unites States, Americas 920.0-926.0 MHz , Australia 920.5-924.5 MHz, China 919.0-923.0 MHz, Malaysia 921.5-928.0 MHz, New Zealand 920.0-925.0 MHz, Singapore
Read range	Up to 12 meters (40 ft.) with TagMaster Windshield tag depending on vehicle type and installation conditions
Protection	IP66
Housing	Aluminum housing UL94 certified plastic XENOY™ cover
Operating temperature	-40°C (-40°F) to +60°C (+140°F)
Output power	EU: 2 W (e.r.p). US: 4 W (e.i.r.p)
Power supply	10 to 30 VDC or PoE+
Power consumption	8 W (max 15 W)
Input	4 isolated inputs
Output	4 isolated outputs
Relay	1 relay output, 60 VDC, 2 A
Interfaces	RS232, RS485, Wiegand/Magstripe, 2 x Ethernet
CPU	ARM Cortex™-A5 running at 536 MHz
Memory	4GB Flash, 512 MB DRAM
Weight	2.3 kg (5.1 lbs)
Dimensions	300 x 300 x 60 mm (11.8 x 11.8 x 2.4 inch)
LED indicator	RGB
Communication protocols	TAGP and various OEM protocols. More information in TagMaster manuals
Encrypted air interface	According to RAIN
EMC	EN 301489-1, EN301489-3
Certificates	CE Certificate according directive 2014/53/EU (RED) and FCC
Standard	RAIN (EPC Gen2/ISO 18000-63)
Safety	EN 60950-1 and 60950-22
Manuals and documentation	XT Series Reader Manual

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