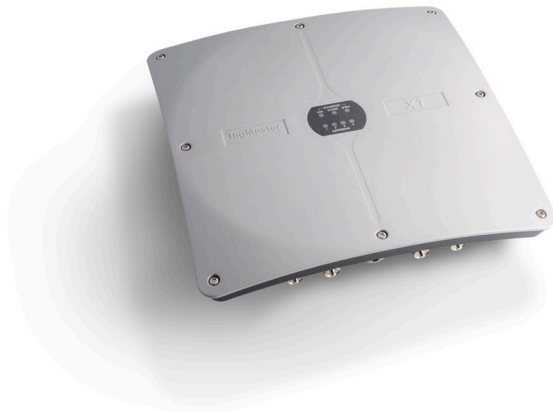


# XT-5 ETC UHF Reader

DATASHEET

## Electronic Toll Collection (ETC)



### KEY FEATURES

- ▶ RAIN reader optimized for road toll applications
- ▶ Easy to install and configure
- ▶ Extremely reliable operation
- ▶ Robust and weatherproof design
- ▶ Linux based reader with PoE+
- ▶ High power radio with polarization control
- ▶ Read range up to 15m (50ft)

### Designed for toll road applications

The XT-5 ETC is a fixed reader based on our most advanced reader platform. It is designed for toll road applications and has a 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. One to four external antennas can be connected.

### Unique ETC features

The XT-5 ETC is easy to install, configure and use. The reader is intended for outdoor usage and is well suited for the toughest environments. XT-5 ETC has a wide number of built-in interfaces including Ethernet (2 separate ports), RS232, RS485 and Wiegand/Magstripe. It has LEDs for visual indication of Ethernet and Antenna status.

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 ETC is fully compliant with RAIN. The XT-5 ETC 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 ETC combined with our SecureMarkID® tags provides a higher level of security.

PART NO. INFORMATION	DESCRIPTION
153800	XT-5 ETC Reader
163830	External 30/60 ETC eu
163850	External 30/60 ETC us
163840	External 40/40 ETC eu
163860	External 40/40 ETC us
193600	Universal Mounting Kit
196000	Antenna Cable 10m

## TECHNICAL INFORMATION

<b>Operating frequencies</b>	:	<b>XT-5 ETC UHF reader:</b> 865.6-867.6 MHz, Europe 865.0-867.0 MHz, India 866.0-867.6 MHz, Russian Federation 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
<b>Read range</b>	:	Up to 15 meters (50 ft.) with TagMaster Windshield tag depending on vehicle type and installation conditions
<b>Dimensions</b>	:	300x300x60 mm / (11.8x11.8x2.4 inch)
<b>Weight</b>	:	2.3kg (5.1 lbs)
<b>Protection</b>	:	IP66
<b>Operating temperature</b>	:	-40°C (-40°F) to +60°C (+140°F)
<b>Housing</b>	:	Aluminum housing UL94 certified plastic XENYO™ cover
<b>Power Supply</b>	:	12-24 VDC or PoE+
<b>Power consumption</b>	:	10W (max 20W) (depending on number of connected antennas)
<b>Output power</b>	:	EU: 2W (e.r.p), US: 4W (e.i.r.p)
<b>Input</b>	:	4 isolated inputs
<b>Output</b>	:	4 isolated outputs
<b>Relay</b>	:	1 relay output, 60VDC, 2A
<b>Interfaces</b>	:	RS232, RS485, Wiegand/Magstripe, 2 pcs Ethernet
<b>CPU</b>	:	ARM Cortex™-A5 running at 536 MHz
<b>Memory</b>	:	4GB Flash, 512 MB DRAM
<b>Certificates</b>	:	CE Certificate according directive 2014/53/EU (RED)and FCC
<b>Standard</b>	:	RAIN (EPC Gen2/ISO 18000-63)
<b>LED indicator</b>	:	Green LED for Ethernet and Antenna indications
<b>Communication protocols</b>	:	TAGP, and various OEM protocols. More information in TagMaster manuals
<b>Encrypted air interface</b>	:	According to RAIN
<b>EMC</b>	:	EN 301489-1, EN 301489-3
<b>Safety</b>	:	EN 60950-1, EN 60950-22
<b>Manuals and documentation</b>	:	XT Series Reader Manual

