

## mGATE™

### Delivering Mobile Commerce in a Tiny Package

#### Overview

MARK IV's mGate™ reader delivers low-cost, mobile commerce and gate control functions for transponder applications. mGATE is the value leader for parking lot access control, drive-thru payment applications and other low-vehicle-speed, tag-read environments..

#### Scalability

mGate engineering delivers exceptional application flexibility. The unit performs accurate, reliable tag reads in one- and two-lane applications.

#### Easy Installation

- » mGate features an external UL/CSA power supply that connects to a 115V/60Hz outlet
- » Factory-trained personnel are available for in-field antenna tuning to achieve high performance reading of Mark IV FPT and LPT transponders

#### m-Commerce Functionality

- » mGate is capable of storing the status of up to 10,000 tag ID's locally.

#### Key Benefits

- » Provides accurate, reliable low-vehicle-speed FPT and LPT tag reading in mobile commerce and gate control applications
- » Single-unit functionality in one and two-lane applications
- » Easy installation
- » Possesses stand alone host connection configuration with traditional lane controller connections
- » Wiegand interface
- » Digital I/O interface
- » Compatible with all MARK IV IAG 256-bit transponders



## Technical Specifications

<b>Operating Frequency</b>	915.75 MHz nominal center frequency
<b>Dimensions (WxHxD)*</b>	12.0 x 3.0 x 4.1 in. 30.48 x 7.62 x 10.41 cm *(excludes cables, connectors, attenuators & power supply)
<b>Weight</b>	3.59 lbs. 1.63 kg
<b>Buffered Data Capacity</b>	10,000 transactions
<b>Data Format</b>	Manchester Keyed Carrier
<b>Error Checking</b>	16-bit Cyclic Redundancy Check (CRC)
<b>Data Rate</b>	500 kbps $\pm$ 10% (uplink/downlink)
<b>Operating Temperature</b>	-30° C to +75° C -22° F to +166° F
<b>Storage Temperature</b>	-40° C to +85° C -40° F to +185° F
<b>Relative Humidity</b>	5% to 95% non-condensing
<b>Vibration</b>	1 g
<b>Shock</b>	MIL-STD-810E
<b>Input Power</b>	Universal AC Input 50-60 Hz, 115V/1.5A or 12VDC/2.0A
<b>Power Consumption</b>	5.5 Watts
<b>Regulatory</b>	Makes use of FCC approved RF module. Part 90 site license required for operation in the USA
<b>Compatibility</b>	MARK IV JANUS Interior, JANUS FME Exterior, JANUS Feedback as well as IAG style 256-bit transponders, including ROADCHECK FPT, LPT, RMT and Fusion®
<b>Maximum Cabling Distance</b>	50 ft. assuming IAG-1 antenna and using Ultralink TL93605 cabling
<b>Communications Interface</b>	RS-232-C interface. Up to 56K asynchronous. Optional RS-422 interface
<b>RF Channel Capacity</b>	Supports 2 lanes-based channels



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