

## JANUS READER

The Next-Generation Reader from MARK IV

### Overview

Taken from the name of the mythological God of Gateways, the JANUS Reader is the high performance, next-generation reader from MARK IV. JANUS takes accurate transponder identification and reliable revenue capture to the next level in an updated design. It is fully compatible with the IAG protocol and Badger lane controller interfaces. The result is an extraordinarily flexible reader that either replaces IAG Badger readers, or seamlessly synchronizes with existing Badger readers to add lane capacity.

### Scalability

The next-generation JANUS Reader is designed to achieve high performance transponder reading in open road toll collection environments. It supports up to 8 RF channels or 5 ORT channels.

### Key Benefits

- High lane discrimination performance at single and multi-reader sites
- Processes transactions at least two times faster than Badger readers
- Increases transaction memory capacity
- Provides more efficient and cost-effective diagnostic data gathering
- Simplifies system configuration, diagnostics and overall maintenance
- Faster reader to lane controller communications

### Meets IAG Technical Specifications

- Active read/write at 500 kbps
- Supports up to 8 RF channels (5 ORT channels)
- 16 high-speed serial ports with 8 master ports and 8 slave ports with speed-doubled 115.2 kbps data rates
- Enhanced channel voting and weighting logic
- Protocol compatibility for high-speed synchronization between JANUS and Badger readers
- Compatibility with existing RF modules and antenna networks
- Ethernet communications for reduced latency
- Standard connectivity and optional web connection with SSL encryption security features
- Fast 5ms transaction processing
- Remote monitoring, diagnostics, configuration and software update capabilities
- Memory capacity of 400,000 buffered transactions
- USB interface
- Network time synchronization support
- Intuitive browser interface



# JANUS READER

## Technical Specifications

|   |  |
|---|--|
| <b>Size (excluding field cabinet)</b>   | 19"W x 16"H x 11"D mounting rack   |
| <b>Weight (excluding field cabinet)</b> | 63 lbs.  |
| <b>RF Channel Capacity</b>              | 8 lane based channels or up to 5 ORT Channels  |
| <b>Power Requirements</b>               | 145W @ 110VAC, UL/CSA power supply   |
| <b>Operating Temperature Range</b>      | -34 deg C to +74 deg C   |
| <b>Storage Temperature Range</b>        | -40 deg C to +85 deg C   |
| <b>Radio</b>                            | FCC/IC approved RF Modules   |
| <b>Over-Air Protocol</b>                | IAG, 500 kbps, active read/write   |
| <b>Lane Controller Protocol</b>         | IAG Badger compatible, 5ms reporting time  |
| <b>Memory Capacity</b>                  | 400,000 buffered transactions  |
| <b>Features</b>                         | Ethernet, USB ports, browser interface, network time sync., auto switch over recovery, remote software updates |