

JANUS[®] Reader.



The JANUS[®] Reader is a TDM protocol high performance reader from Kapsch TrafficCom. JANUS takes accurate transponder identification and reliable revenue capture to the next level in an updated design. It is fully compatible with the TDM protocol and Badger lane controller interfaces. The result is a flexible reader that replaces existing IAG Badger readers and/or seamlessly synchronizes with existing Badger readers to add lane capacity.

Key Features

- 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
- Enhanced channel voting and weighting logic
- Protocol compatibility for high-speed synchronization between JANUS and Badger readers
- Compatibility with existing Badger RF modules and antenna networks
- Ethernet communications for reduced latency
- Standard connectivity and optional web connection with SSL encryption
- Fast 5 ms transaction processing
- Remote monitoring, diagnostics, configuration and software update capabilities
- Memory capacity of 400,000 buffered transactions (expandable based on hard disk space)
- USB interface
- Network time synchronization support
- Intuitive browser interface



Technical specifications

Operating frequency

- 915.75 MHz
(nominal center using FCC RF module)

Dimensions (W x H x D)

- 19.0 x 15.8 x 10.8 in
- 48.26 x 40.13 x 27.43 cm
- 19.0 in rack-mountable; rack 9U high

Weight

- 63 lbs (excluding cabinet)
- 28.6 kg

Buffered data capacity

- 400,000 transactions

Data format

- Manchester Keyed Carrier

Data rate

- 500 kbps ± 10 % (uplink/downlink)

Operating temperature

- -37° C to +74° C
- -34° F to +185° F

Storage temperature

- -45° C to +93° C
- -49° F to +199° F

Relative humidity

- 5 % to 95 % non-condensing

Vibration

- NEMA TS-1

Shock

- NEMA TS-1

Input Power/Consumption

- 145 W @ 110 VAC, UL/CSA power supply

Regulatory

- Makes use of FCC approved RF module(s)
- Part 90 site license required for operation in the USA

Compatibility

- JANUS Interior, JANUS FME Exterior, JANUS Feedback as well as TDM style 256-bit transponders, including ROADCHECK FPT, LPT, RMT and FUSION®

Maximum cabling distance

- 200 ft assuming IAG-1 antenna and using Ultralink TL93605 cabling

Communications interface

- 200 ft assuming IAG-1 antenna and using Ultralink

Options

- Also available in non-redundant and/or Ethernet only Versions

Kapsch Group

Kapsch is one of Austria's most successful technology corporations, specialized in the future-oriented market segments of Intelligent Transportation Systems (ITS), Railway and Public Operator Telecommunications as well as Information and Communications Technology (ICT). Kapsch. Always one step ahead.