



**For decades, the JANUS Multi-Protocol Readers have taken accurate transponder identification and reliable revenue capture to the next level.**

**Kapsch is expanding its line of Reader products - the performance you expect, in a smaller package.**

JANUS Multi-Protocol Readers are built on a highly flexible architecture to provide highly scalable systems, and support major North American industry tolling protocols.

The newest member of the Reader family is the Janus MPR4.1. A single channel, time-multiplexed multiple port reader that is ideal for single lane toll deployments or, using its multi-port capabilities, up to four lanes with a single reader.

The new MPR4.1 four-port reader is built on the same reliable, flexible foundation as the other Janus readers and offers the same level of performance you have come to expect while providing greater RF power which allows for longer cable lengths, multi-protocol selection including T21, and a new modern graphical interface (GUI). The new GUI provides users the same level of configuration and flexibility as previous generation JANUS Readers, but with a newer modern look.

Providing ease of installation, integration, maintenance, and protocol selection, the new JANUS MPR4.1 will be the reader of choice.

### Key Features

- 6C OmniAir Certified
- IP66 / NEMA 4 enclosure
- Tested in multi-protocol mode up to 100mph
- High power output (up to +33 dBm)
- Ability to remotely access, diagnose, download data and update software/firmware
- No extra license fees - Single price for all protocols and antenna ports. No need for licenses or keys to unlock protocols or ports
- Buffered transaction capacity up to 1,000,000 transactions
- Exclusive unique installation bracket

# Technical Features

**Industry-proven voting algorithm ensures accurate lane identification.**  
**Fully expandable to support additional lanes, including AET, by synchronizing additional readers.**  
**Intuitive web interface that supports remote diagnostics, software update management, and system performance monitoring.**

## Dimensions (W x H x D)

19.0 x 15.2 x 4.0 in. / 48.3 x 38.6 x 10.2 cm

## Weight

17.8 lbs. / 8.1 kg

## Input Power / Consumption

Max. 50W, 19-30 VDC

## RF Conducted Power

Max. +33 dBm (2W)

## Operating / Storage temperature

Operation: -34.6 °F to +165 °F / -37 °C to +74 °C

Storage: -40 °F to +185 °F / -40 °C to +85 °C

## Relative Humidity

5% to 95% (non-condensing)

## Enclosure

IP66 / NEMA 4

## Shock & Vibration

NEMA TS-2

Shock @ 10G in three planes

Vibration @ 5-30Hz, 0.5G in three planes

## Antenna Ports

4, N-Type

## Operating Frequency (Protocol specific)

902.5 to 903.5 MHz and 910 to 921.5 MHz

## Communications Interface

Ethernet (10/100/1000Base-T)

## Regulatory

6C OmniAir Certified (in multi-protocol mode)

FCC Part 90 subpart M

Industry Canada RSS137

FCC Part 15 Class A

- User obtained site license may be required for operation in your region (i.e. USA = FCC Part 90)

## Supported Protocols

R = Read, R/W = Read/Write

Kapsch TDM (E-ZPass®) - R/W

ISO 18000-63 (6C) - R/W

ISO 18000-62 (6B) - R

ISO 18000-62 / 80 kbps (SeGo) - R

ISO 18000-62 / 31.25 kbps - R

ISO 10374 (ATA) - R

California Title-21 (T21) - R

## Lane Expandability

Supports synchronization with other Janus readers to support additional lanes.



## Installation

Kapsch offers a very unique exclusive mounting bracket specifically designed to install the MPR4.1 with minimal effort. Install the bracket to almost any vertical or horizontal gantry/pole. Connect all cables to the reader in the safety of your bucket or on the ground and then simply hook the reader to the bracket and continue routing the cables. When ready, bolt the reader to the bracket. Kapsch also offers terminated cable assemblies to ease the installation process.

\* This product contains technology licensed from Amtech Systems LLC. A list of these patents can be found at [www.ktcsales.net/components](http://www.ktcsales.net/components)  
Content subject to change without notice.