

Overhead Lane Kit.

Precise capture zone definition.



Lane Kits provide the RF connection between readers and transponders. They are supplied separately for each lane to be equipped. Lane Kits can have different types of antenna, depending upon the application (for example: IAG-1, IAG-2, VRC, etc.). This cut sheet describes the IAG-1 and IAG-2 antennas used in regular toll lanes up to 12 feet wide. The high performance of the roadside equipment relies upon the Overhead Lane Kit. The package consists of an FCC approved RF module, fully weatherized flat-panel antenna and adapter cable, all of which contribute to precise capture-zone definition for channelized toll lanes and excellent lane discrimination. The lane-based capture zone is defined by RF emitted via the flat-panel antenna. Transponders passing through the capture zone transmit their information packets to the overhead antenna.

Installation Specifications

The antenna is installed on a suitable overhead structure (optional mounting brackets can be provided). Typical antenna height for channelled toll lane applications is 15 feet, tilted slightly toward the flow of traffic. The maximum cabling distance between the RF Module and flatpanel antenna is typically up to 200 feet. Consult the factory for cabling distance configurations and corresponding cable specifications.

ITS Applications

The Overhead Lane Kit is suitable for Intelligent Transportation System (ITS) applications employing both internally and externally mounted transponders.



Technical Specifications:

IAG-1 ANTENNA

Housing:	Flat panel, fully weatherized, salt resistant, corrosion-proof housing. Front face, white hermetically sealed fiberglass radome with UV protection.
Dimensions (W x H x D):	~31.75 x 34.8 x 2.3 in. ~80.77 x 88.39 x 5.84 cm
Weight:	~28 lbs. ~12.70 kg
Operating Temperature:	-40°C to +85°C -40°F to +185°F
Additional Available Hardware:	RF adapter cable, extension cables. Consult factory for details

IAG-2 ANTENNA

Housing:	Flat panel, fully weatherized, salt resistant, corrosion-proof housing. Front face, white hermetically sealed fiberglass radome with UV protection.
Dimensions (W x H x D):	~15.47 x 17.72 x 1.2 in. ~39.37 x 44.96 x 3.05 cm
Weight:	~4 lbs. ~1.81 kg
Operating Temperature:	-40°C to +85°C -40°F to +185°F
Additional Available Hardware:	RF adapter cable, extension cables. Consult factory for details



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Kapsch Group

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Kapsch TrafficCom IVHS | 6020 Ambler Drive | Mississauga, Ontario L4W 2P1 | CANADA | Phone +1 905 624 3020 | Fax +1 905 625 6197
54 S. Commerce Way, Suite 100 | Bethlehem, PA 18017 | Phone +1 610 419 1479 | Fax +1 610 419 1489
E-Mail ktc.ca.info@kapsch.net | ktc.us.info@kapsch.net | www.kapsch.net

1000005976-01_EN-US