RoadRunner™ WT210/WR210 Series

> > > > > > > > > > > > > *Industrial Wireless LAN*

Remote LAN Access

The RoadRunner™ Industrial Wireless LAN equipment provides easy viewing access, live video streaming and access for searching and downloading recorded video from facilites and first responder / district vehicles.

Highest Performance: The RoadRunner™ Wireless Industrial LAN equipment supports up to 54Mbps link speed for fast downloading, searching and live video streaming.

Ruggedized for Mobile Applications: Featuring redundant power inputs, an industrial-rated metal enclosure and the ability to perform in extreme temperatures, the Industrial Wireless LAN ensures maximum durability and performance in harsh mobile applications.

Powerful Security: Featuring secured management by HTTPS with WPA and WPA2 encryption to ensure the system data is secure.

Maximum Flexibility: Configured for vehicle or facility applications, the Wireless Industrial LAN provides flexible wireless access and video archiving for personnel located at facilites and first responders.

Equipment Options:

RR-WT210: Wireless LAN Industrial Access Point, Bridge & Exterior Antenna | Providing easy remote access within WiFi range to on-board digital video systems, the WT210 features a 54Mbps transfer rate providing live video streaming and access to fast searching and downloading of recorded video. *Items included: Access point / bridge, exterior 3dB gain antenna, 20' antenna cable, 7' network cable, power cable connection to the DVR*

RR-WR210A: Wireless LAN Industrial Access Point and Facility Antenna | The RoadRunner™ Wireless Industrial Access Point for facilities provides high speed access to vehicles equipped with WT200 or WT210 bridges. Supporting up to 50 vehicles at one time over a 300 foot range, the WR210A is ideal for providing fleets with wireless access. Power over Ethernet (POE) support provides simple, one cable installation. *Items included: Access point, exterior 8dBi antenna, 20' antenna cable*

RR-WR210A-POE: Power Over Ethernet injector for WR210A | For installations that do not have POE network devices already available. *Items included: POE Injector, 25' CAT5 cable (Qty 2)*

RR-WR210B: Wireless LAN Industrial Access Point, Magnetic Antenna and Vehicle Power Plug | Designed specifically for use in vehicles, the WR210B provides high speed access to vehicles equipped with WT200 or WT210 bridges. Using an on-board laptop computer connected to the WR210B, first responders and transit officials can automatically connect to vehicles by emulating the facility network in the field. *Items included: Access point, antenna, cables required for connecting to laptop*

RR-WT-210-DUO: Dual Mode Wireless LAN addition | Add the WT-210-DUO to either the WT210 or WT200 to provide both auto-connect capability at the facility and first responder connection via SSID. The WT210-DUO provides two access points, one in bridge mode, and the other in Access Point mode. The two devices share a single antenna. *Items included: Access Point, 20' antenna cable, T for splitting antenna, 4' antenna cables for each access point, power and network cabling for both access points*

Apollo Video Technology

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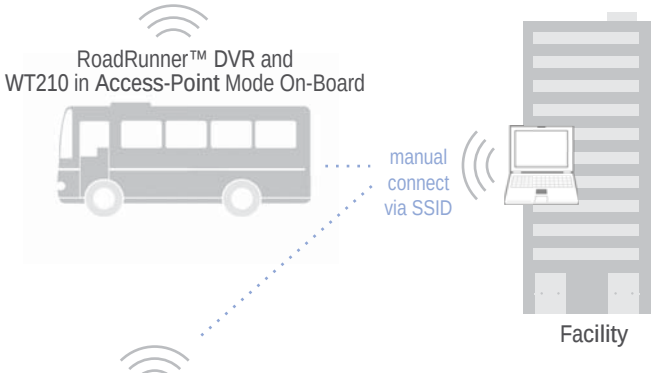
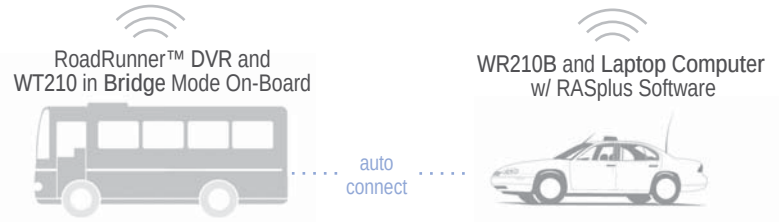
Specifications

Ethernet	2 x 10/100 Base T(X) supports switch mode
Connector	RJ-45
Protection	Built-in 1.5KV Magentic Isolation
Protocol	ICMP, IP, TCP, UDP, DHCP, BootP, ARP/RARP, DNS, SNMP MIB II, HTTPS, SNMP v1/v2, Trap, Private MIB
Power over Ethernet	(ONLY RR-WR210A) Present at ETH2 Power Device (IEEE 802.3af) - IEEE 802.3af Compliant Input Interface - Power Consumption: 8 Watts Max. - Overload & Short Circuit Protection - Isolation Voltage: 1000 VDC Min. - Isolation Resistance: 10^8 ohms Min.
LED	PWR 1(2) (P.O.E.) / Ready, ETH (1) Link/ACT, WLAN Link/ACT, Fault
WLAN Operating Mode	AP / Bridge / Repeater
Antenna Connector	Reverse SMA
Radio Frequency Type	DSSS
Modulation	IEEE 802.11b: CCK, DQPSK, DBPSK IEEE 802.11g: OFDM w/ BPSK, QPSK, 16QAM, 64QAM
Frequency Band	America/FCC: 2.412 ~ 2.462 GHz (11 Channels) Europe CE/ETSI: 2.412 ~ 2.472 GHz (13 Channels)
Transmission Rate	IEEE 802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE 802.11g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps
Transmit Power	18 dBm
Receiver Sensitivity	-81 dBm @ 11 Mbps, PER < 8% -64 dBm @ 54 Mbps, PER < 10%
Encryption Security	WEP: 64-bit, 128-bit Key Supported WPA / WPA2: 802.11i (WEP and AES Encrypion) PSK (256-bit Key Pre-shared Key Supported) 802.1x and RADIUS Supported TKIP Encryption
Wireless Security	SSID Broadcast Disable
Power Input	12 ~ 48VDC in 6-Pin Terminal Block
Power Consumption	6 Watts Max.
Reverse Polarity Protection	Present
Operating Temperature	-35°C to 70°C (-31°F to 158°F)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-35°C to 85°C
Casing	IP30 Protection
Dimensions (WxHxD)	2.05" x 5.57 " x 4.17" (52mm x 144mm x 106mm)
Approvals	Shock: IEC60068-2-27; Free FAll: IEC60068-2-32; Vibration: IEC60068-2-6, EMI: FCC Part 15, CISPR (EN55022) Class A, EMS: CE EN61000-4-2/EN61000-4-3/ EN61000-4/4/EN61000-4/5/EN61000-4-6

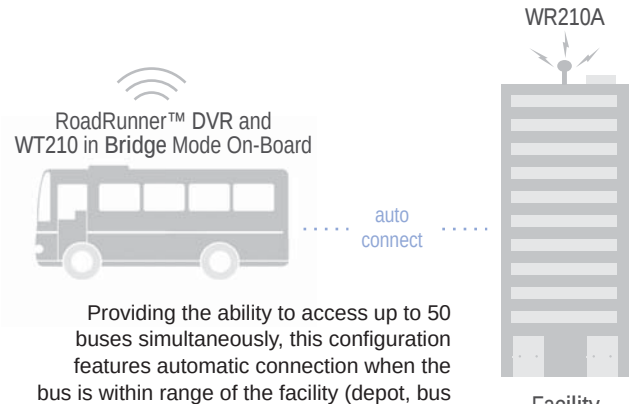
System Configuration Examples



For viewing access from vehicles and facilities, this configuration provides the ability to manually-connect to one bus at a time when it is within range of the facility.



This configuration features automatic connection to one vehicle at a time. License-free RASPlus™ Software provides the user with a list of available buses allowing the user to connect to any bus in range (approximately 300'). The WR210B provides a signal-strength indicator allowing the vehicle to stay at a safe distance from the bus while maintaining confirmed access to the video.



Providing the ability to access up to 50 buses simultaneously, this configuration features automatic connection when the bus is within range of the facility (depot, bus yard, garage or district headquarters).

Features and specifications are subject to change without notice

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