

3GPP Release 4,6,7 3GPP Release 8,9

ECC - 2 412-2 462GHz: CE - 2 412-2 472GHz

FCC: 5.170-5.250GHz and 5.735-5.835GHz, CE: 5.170-5.250GHz

GSM/GPRS/EDGE: Quad band 850/900/1800/1900MHz, LMTS/HSPA+: Five band 800/850/900/1900/2100MH LTE-EU: 800/900/1800/2600MHz, LTE-US: 700/850/1700/1900/2600MHz

Korenix Technology Co., Ltd

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Applications

Industrial Automation

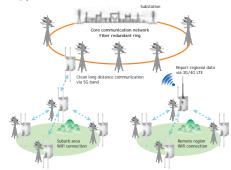
Provides high quality and reliable wireless communication between stationary sites, and fast roaming between moving vehicles and fixed networks. Typical applications are warehouse automation and factory automation.



- Dual radios for wireless redundancy between AP/CPE
- Client-based fast roaming for cost effective mobility solutions
- Link Fault Pass Through enhances system reliability and reduces system downtime

Power Electricity Transmission And Distribution

Extends power transmission and distribution networks to suburb areas and remote regions where physical networks are not reachable.



- Reliable wifi communication for suburb areas and remote regions
- High speed 3G/4G LTE and secure VPN remote control
- IP31 protection wide op temperature -40~70°C for harsh environments

Applications

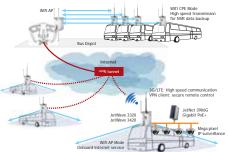
Provides high speed and reliable onboard Wifi data network for passenger information system, Internet service and entertainment systems. LTE speeds up the performance for train to ground



- Ceiling mounting and high speed onboard Wifi connections in and between cabins
- High speed 4G LTE Internet service
- Anti-vibration/shock M12 connectors and EN50121-4 railway certificate

Bus

Provides high speed onboard Wifi service for passengers and secure remote control to each bus through VPN tunnels. NAT routing and DHCP server simplify IP management on the buses. Every bus has the same IP configuration internally.



- Ceiling mounting high speed onboard Wifi and 3G/LTE bus to ground communication
- Every bus shares the same IP configuration through NAT routing
- Anti-vibration/shock M12 connectors







Industrial Dual 802.11n 2.4G/5G 2T2R MIMO Wireless AP/Bridge

JetWave 3220 Series



- Dual Wifi, dual gigabit Ethernet (LAN and WAN)
- 802.11a/g/n and 2.4G/5G configurable
- 2T2R MIMO doubles data rate up to 300Mbps per radio
- High speed LAN/WAN/WIFI bridging and routing
- Client-based fast roaming
- Dual radios for wireless redundancy
- WAN/Wireless Link Fault Pass-Through
- Korenix View / Korenix NMS remote Management
- Support DC24V and Gigabit PoE+ power input
- Rugged M12 connector for vehicle (-M12 model)

Dual Radios for Wireless Redundancy

JetWave 3220 supports two Wifi interfaces that can be configured as 802.11a/g/n and 2.4/5G band. By connecting the two Wifi interfaces to the same peer, the two links backup with each other. Users can assign primary link on one interface and backup link



Bidirectional Link Fault Pass Through

The link loss condition of the physical link connection is detected and then shut down the corresponded end of the wireless interface. Link Fault Pass Through helps to notify the end devices and administrators to take actions to minimize the down time.



Client-Based Fast Roaming

Quickly detect the strengths of the signals from surrounding wireless APs and seamlessly handover to the strongest one within 100ms. The client-based roaming eliminates the complexity in AP controller architecture and is sufficient for moving vehicle applications.



Industrial 3G/LTE + 802.11n 2T2R MIMO Wireless IP Gateway

JetWave 3320 and 3420 Series



- Support LAN, WLAN & Serial over 3G/LTE cellular network ■ 802.11a/g/n and 2.4G/5G configurable
- 2T2R MIMO doubles data rate up to 300Mbps
- Dual gigabit Ethernet (LAN and WAN) ■ High speed LAN to 3G/LTE routing, Wifi to 3G/LTE routing
- Cellular/WAN redundancy
- Support VPN client, NAT and firewall
- RS232/422/485 supports TCP server/client and UDP mode ■ Korenix View / Korenix NMS remote Management
- Support DC24V and Gigabit PoE+ power input
- Rugged M12 connector for vehicle (-M12 model)

IP Gateway Routing for Wifi /LAN /Serial

The embedded 3G/LTE mobile interface offers high speed UTMS/HSPA+ or LTE connection which enables remote and mobile control over local Wifi, gigabit Ethernet networks and RS232/422/485 serial devices.



VPN Client / Firewall Secure Remote Control

By enabling VPN on 3G, Wifi or LAN interfaces, NAT translates the public IP address into the private networks via the public Internet.

NAT Routing Simplifies IP Management

JetWave acts as VPN client and provides internal IP addresses hiding behind the encrypted communication tunnels among firewall. Identical systems at all the remote sites can have identical internal network configurations.



WAN Port and 3G/4G LTE Redundancy

Data is routed between LAN/Wifi interfaces to WAN/3G/LTE. Users can configure WAN and 3G/LTE to back up with each other. This provides high level redundancy via different uplinks. This also provides auto-offload 3G/LTE bandwidth and reduces cost.



EN50121-4 Superb EMC Protection for Railway

Exceeding the high level EMC requirements of railway EMC EN50121-4 and heavy industrial standards, JetWave is proven to provide reliable operation against field electronic affects and heavy interferences.



Ceiling-Mount Kit for Moving Vehicles

Various antennas and installation options are available. The ceiling-mount kit allows you to install the AP on the ceiling of a vehicle to have a wider coverage. The antenna mounting kit holds either N-type or SMA-type antennas and makes the installation flexible.



Anti-Vibration/Shock **Gigabit M12 Connectors** RJ45 Ethernet connectors experience link loss

in vibrating environments. Designed for moving vehicle applications such as trains and busses, JetWave 3220/3320/3420-M12 are equipped with two gloabit M12 rugged connectors for heavy vibration and shock.



Industrial Secure M2M 3G/LTE Gateway

JetWave 2310 Series (Comming Soon!)



- Slim size 3G Gateway (JetWave 2310)
- Slim size 3G/LTE + 802.11n WIFI Gateway (JetWave 2311)
- LTE, compatible with 3G/2G, up to 150M DL, 50M UL
- High speed 802.11n WIFI CPE, up to 3T3R, 450Mbps
- Dual SIM Standby for carrier provider redundant
- 3G/LTE & WIFI redundant/offload
- Dual Gigabit Ethernet routing/bridging
- Hardware based NAT routing
- VPN/Firewall for secure connectivity
- Web, SNMP, Auto IP Report
- Dual 24VDC (12~48V) power input

High Performance Secure M2M Gateway

The powerful CPU, up to 700MHz, speeds up the 802.11n wireless communication by 3 times and empowers an incomparable high speed routing/bridge among the WiFi, Gigabit Ethernet, and 3G/LTE interfaces.



Dual SIM Standby

The JetWave 2310 Series supports Dual SIM Standby. While the primary connection fails, the second SIM recovers the communication to the other carrier provider.



WIFI & 3G/LTE Offload

In addition to 3G/LTE, JetWave 2311 supports 802.11n WIFI Client mode. The loading of data traffic can be shared by 3G/LTE and WIFI to reduce the cellular cost. When the Wifi signal is poor or not available, the system automatically forwards traffic to the 3G/LTE

