



Reliable Wireless & Mobile Communication

JetWave 3220/3320 Series
JetNet 3906G

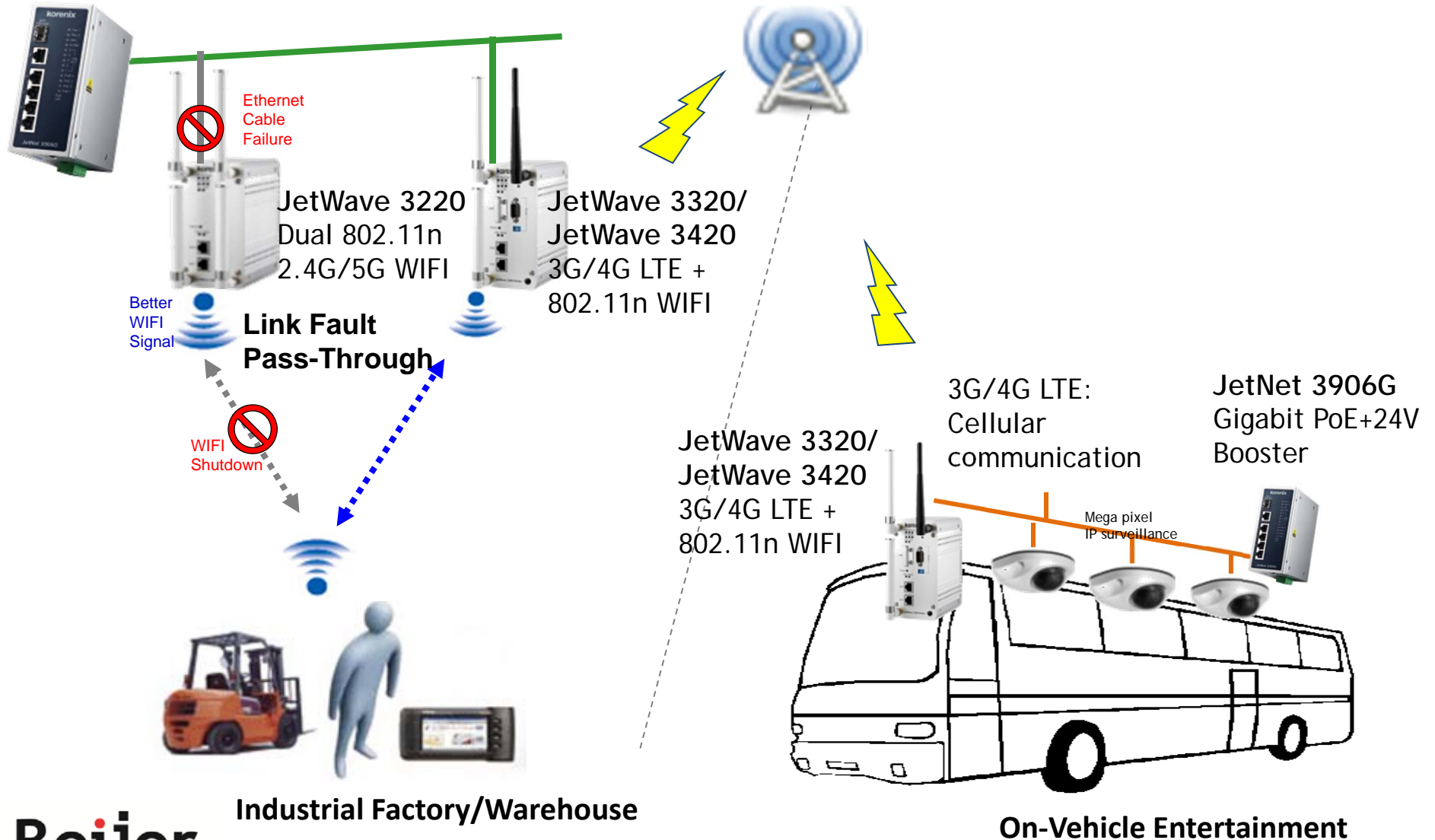
Demo Box Introduction

Beijer
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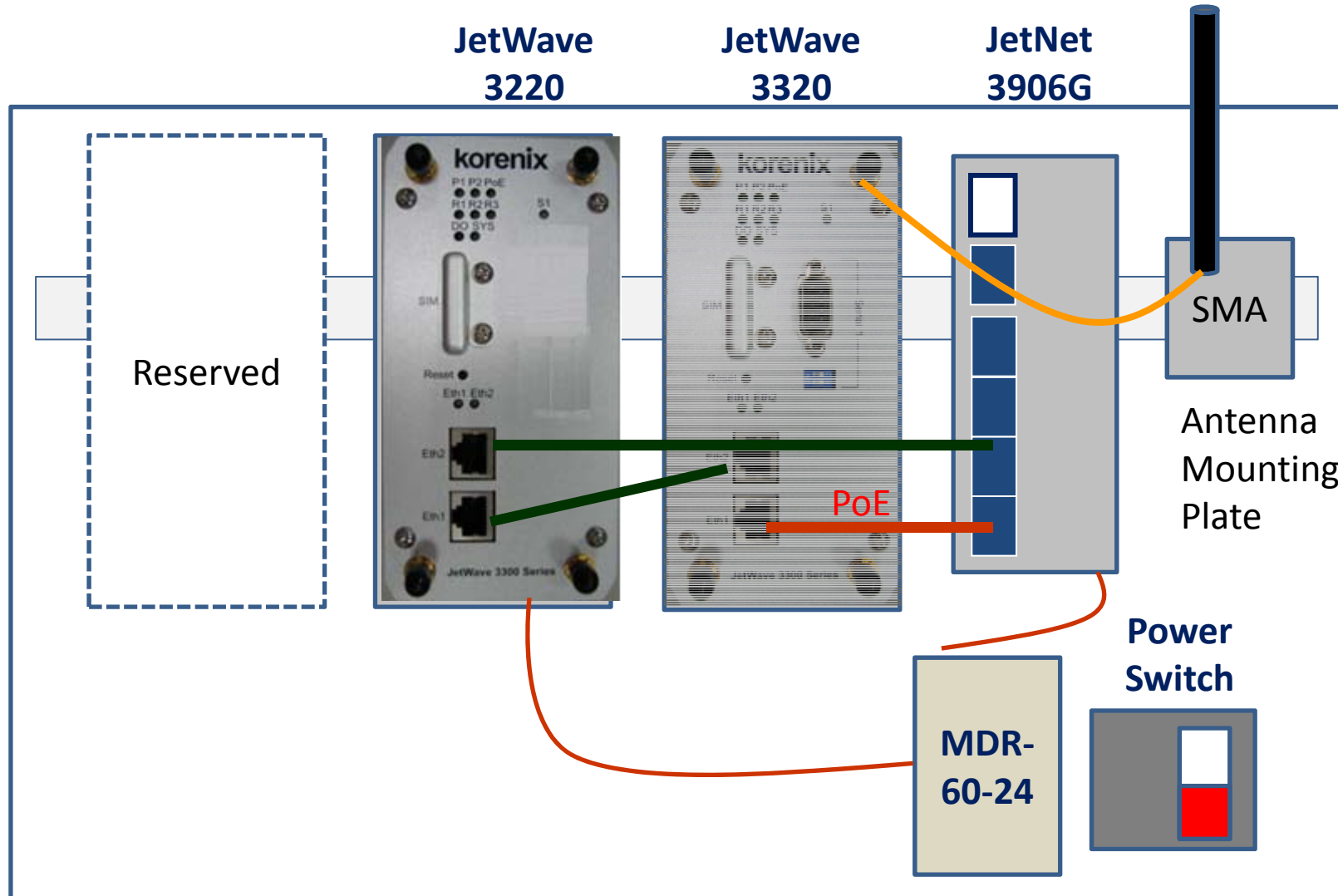
korenix
A Beijer Electronics Group Company

Reliable Wireless & Mobile Communication JetWave 3220/3320/3420 Series

JetNet 3906G Gigabit PoE+24V Booster



Demo Box Layout



Connect the Devices

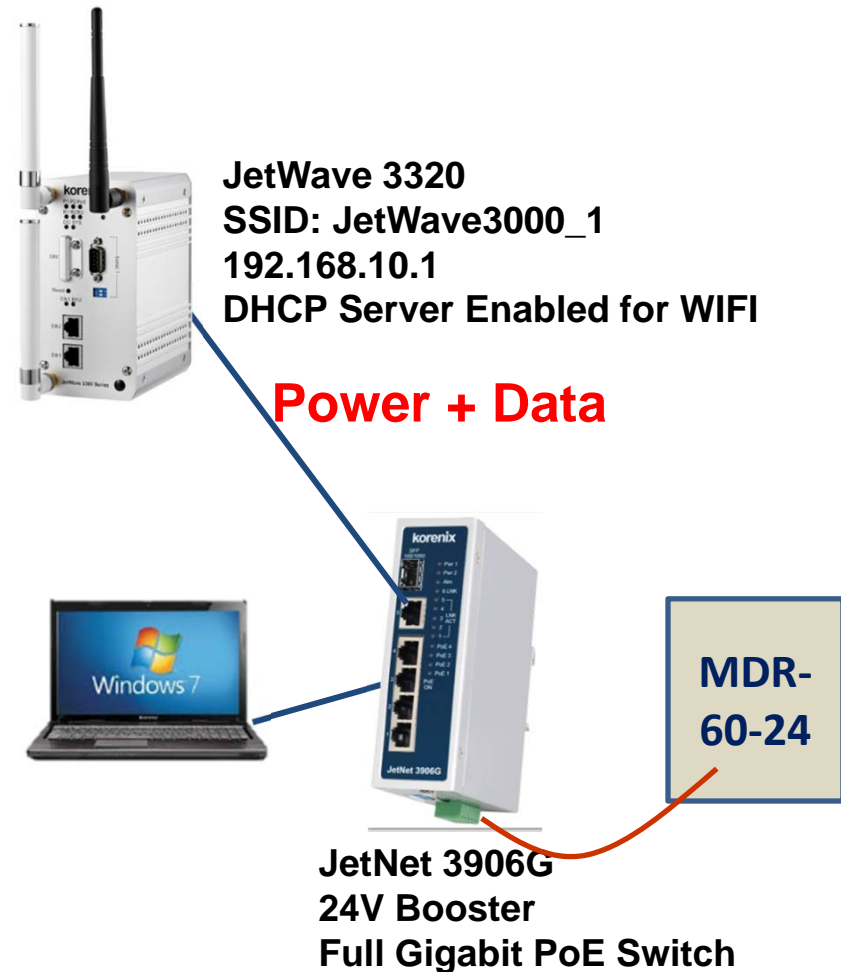
- Install the WIFI antennas to the JetWave 3220/3320.
- Connect the 3G Radio Antenna to the Antenna Mounting L plate. Plug the 3G SIM card into JetWave 3320 SIM socket.
- Connect the Ethernet Cable as following:
 - JetWave 3320 Eth 1 to JetNet 3906 Eth 1.
 - JetWave 3320 Eth 2 to JetWave 3220 Eth 1.
 - JetWave 3220 Eth 2 to JetNet 3906 Eth 2
- JetNet 3906G is powered by MDR-60-24.
- JetWave 3220 is powered by MDR-60-24.

Live Demo

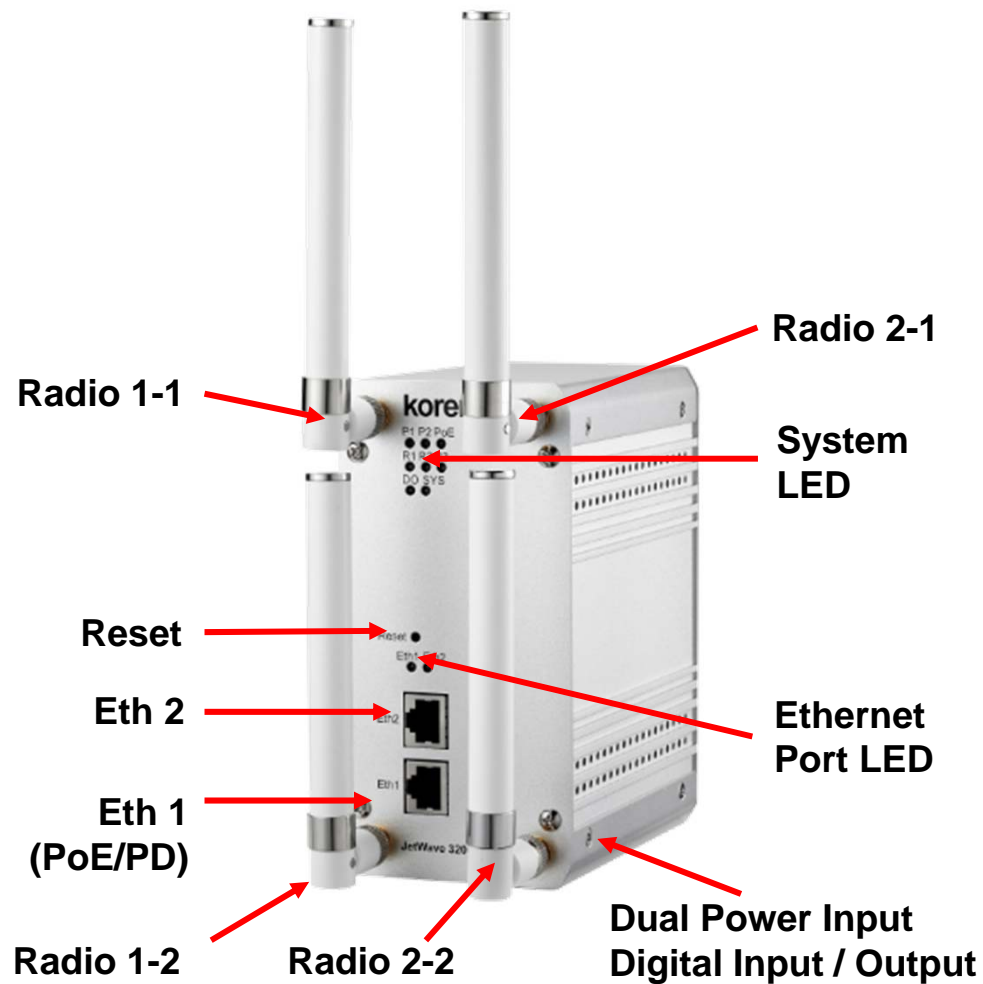
- **Live Demo 1:**
 - Powered by JetNet 3906G (24V Booster)
 - Korenix View Utility – Discover the devices
- **Live Demo 2:**
 - 3G Routing,
 - 3G Status GUI
 - Speed Test
- **Live Demo 3:**
 - Problem while LAN failure
 - Explain

Live Demo 1 – Powered by JetNet 3906G

- (Plug-in your 3G SIM card first)
- Connect 24V power to JetNet 3906G. The JetNet 3906G is an 24V Booster Full Gigabit PoE Switch.
- Connect Ethernet cable from JetNet 3906G to JetWave 3320. The JetWave 3320 can be powered well.
- Explain the front panel and feature of the JetWave 3220/3320.



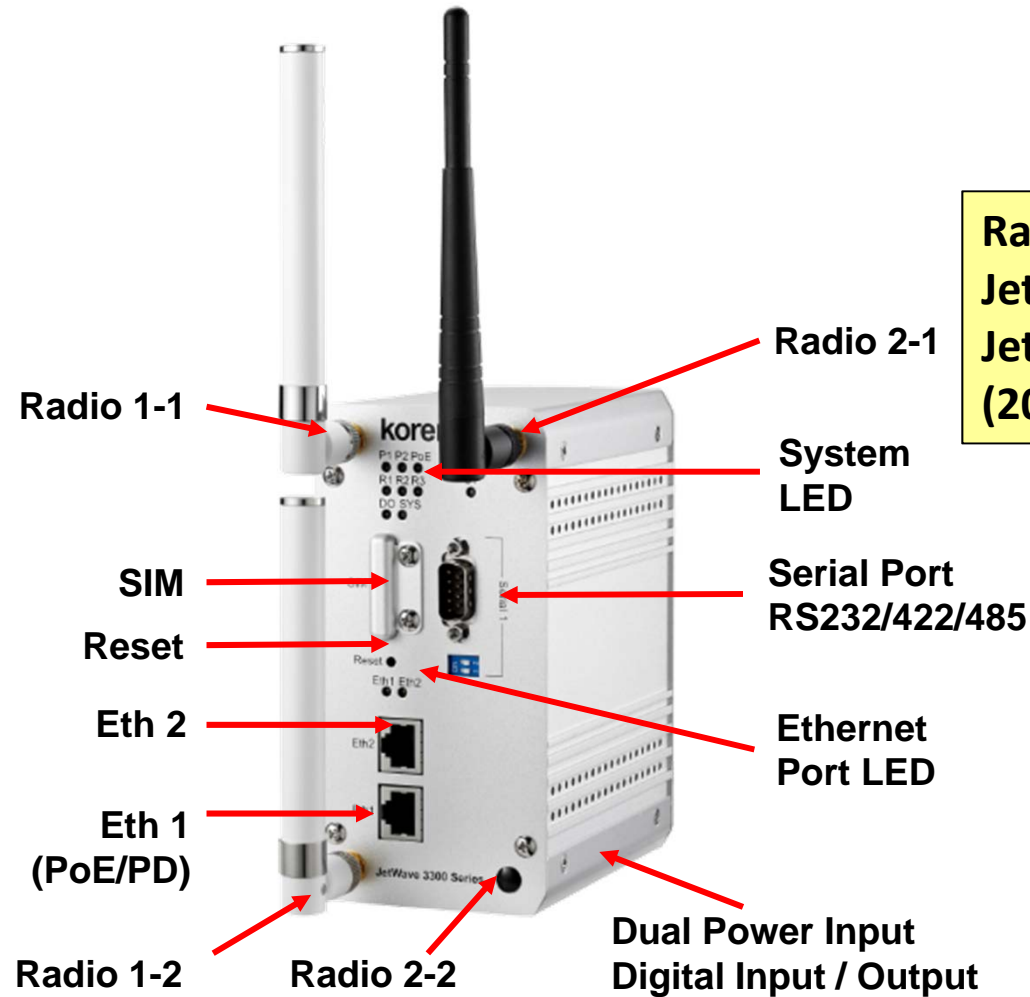
JetWave 3220 Appearance



JetWave 3320/3420 Appearance

Radio 1:
IEEE 802.11n/a/g
2.4G/5G Band
2T2R MIMO

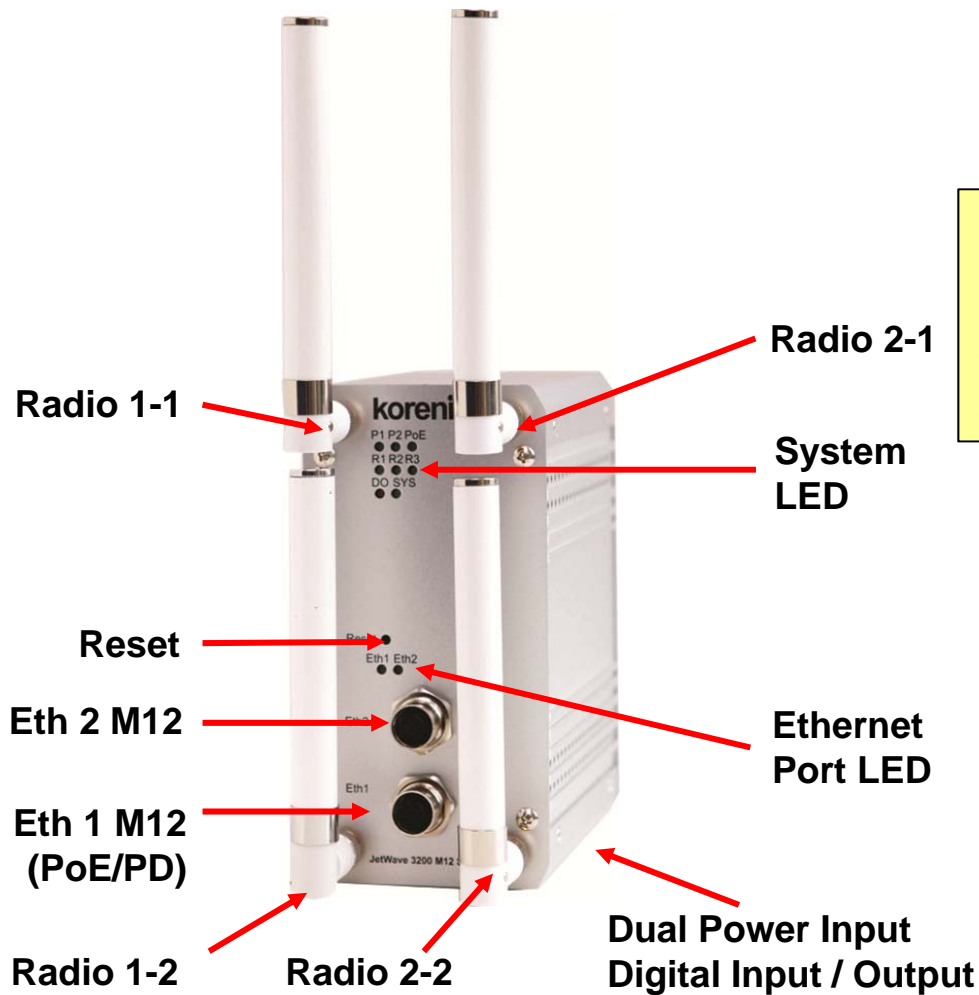
Radio 2:
JetWave 3320: 3G
JetWave 3420: LTE
(2014, Q3E)



JetWave 3220-M12 Appearance

Radio 1:
IEEE 802.11n/a/g
2.4G/5G Band
2T2R MIMO

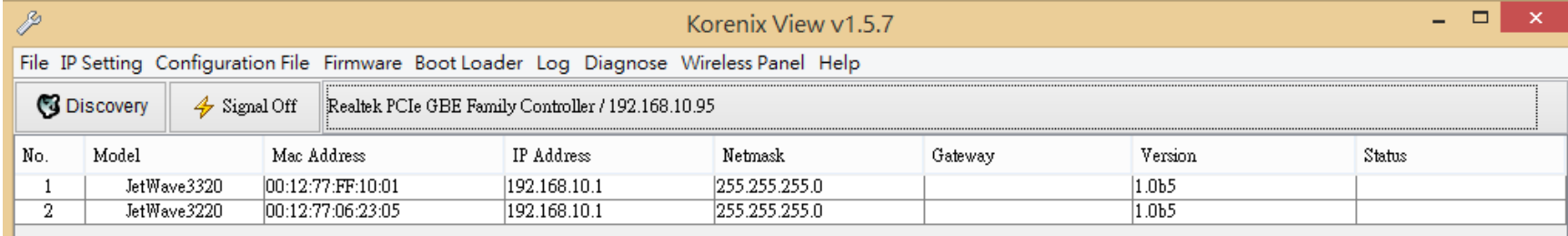
Radio 2:
IEEE 802.11n/a/g
2.4G/5G Band
2T2R MIMO



Live Demo 1 – Korenix View Utility

- The Korenix View Utility provides you convenient tool to scan the network and configure the AP.
- Step 1: Open the Korenix View Utility. (Must later than JetView V1.5.7)
- Step 2: Select the “**All Interfaces**” or specific NIC (Network Interface Card). “All Interface” can search all subnets.
- Step 3: Click “**Discovery**”, and then the Nodes and its IP address can be found and listed in Node list.
- Step 4: After you scan the network, select the AP and click “**Open Web GUI**” to access the web management interface. You can also modify the IP address/Netmask directly on JetView and then click “**Change IP**” to change IP settings.
- **Note: Please check the User Manual to configure the other software settings.**

Live Demo 1 – Korenix View Utility

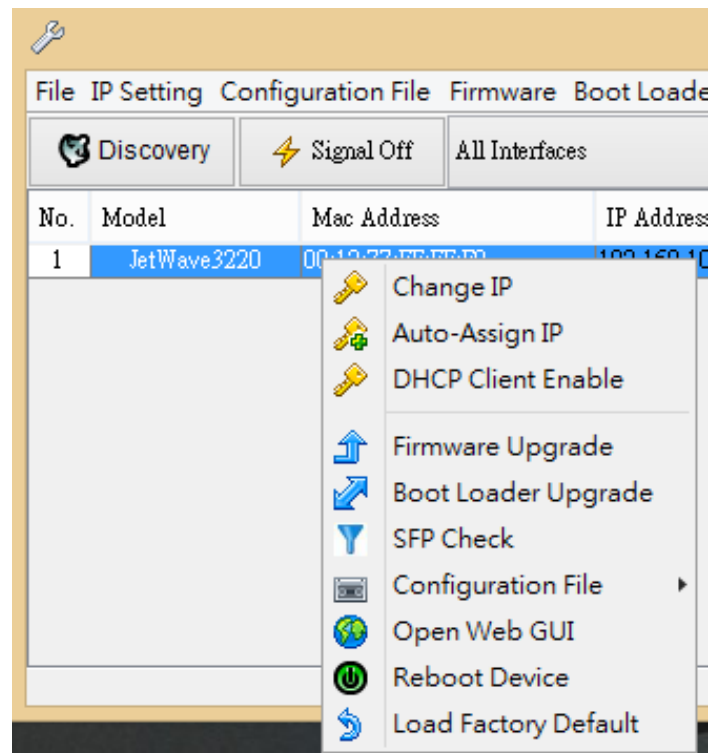


Korenix View v1.5.7

File IP Setting Configuration File Firmware Boot Loader Log Diagnose Wireless Panel Help

Discovery Signal Off Realtek PCIe GBE Family Controller / 192.168.10.95

No.	Model	Mac Address	IP Address	Netmask	Gateway	Version	Status
1	JetWave3320	00:12:77:FF:10:01	192.168.10.1	255.255.255.0		1.0b5	
2	JetWave3220	00:12:77:06:23:05	192.168.10.1	255.255.255.0		1.0b5	



- **Device “Discovery”**
- **Basic Tool Shortcut:**
 - “Change IP”, Auto-Assign IP
 - “Open Web GUI”
 - Firmware upgrade,
 - Configuration Backup/ Restore
 - Reboot Device
- **Wireless Panel**

Live Demo 1 – Korenix View Utility

The screenshot displays the Korenix View v1.5.7 utility interface. The title bar shows the application name and standard window controls. The menu bar includes File, IP Setting, Configuration File, Firmware, Boot Loader, Log, Diagnose, **Wireless Panel** (highlighted with a red box), and Help. Below the menu bar, there are buttons for Discovery, Signal Off, and All Interfaces. The main area features a table with columns for Model, Mac Address, IP Address, Netmask, Gateway, Version, and Status. Two rows of data are visible, both highlighted in blue. To the right of the table is a configuration panel for WLAN 1 and WLAN 2, with tabs for Basic Setting and Security Setting. The Basic Setting tab is active, showing various configuration options with dropdown menus and checkboxes. At the bottom of the configuration panel are Refresh and Apply buttons.

..	Model	Mac Address	IP Address	Netmask	Gateway	Version	Status
1	JetWave3320	00:12:77:FF:10:01	192.168.10.2	255.255.255.0		1.0b5	
2	JetWave3220	00:12:77:AA:BB:CC	192.168.1.6	255.255.255.0		0.0.6	

WLAN 1 | WLAN 2

Basic Setting | Security Setting

Disable WLAN Interface

Operation Mode: WDS-AP

SSID: 3220_Orwell

Broadcast SSID: Enabled Disabled

802.11 Mode: 802.11G/N

Frequency/Channel: Auto

Channel Mode: 20 MHz

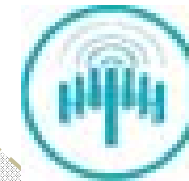
Max. Output Power: 20 dBm

Refresh

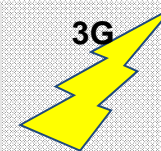
Apply

Live Demo 2 – 3G Routing

- 3G Connection
- WIFI to 3G Routing
- Cloud for remote management



ISP



JetWave 3320
SSID: JetWave3000_1
192.168.10.1
DHCP Server Enabled for WIFI



WIFI



<http://jetwaveremote.appspot.com/>



Your Industrial Computing & Networking Partner

Device Name	IP Address	Last Update Time
korenix101	111.80.71.237	2014-04-14 14:56:37

Note: Some of the mobile operators block port 80. You MUST enable force https connection on JetWave.

Live Demo 2 – 3G Routing Web GUI - Status Page



Your Industrial Computing & Networking Partner

- JetWave 3320
 - Status
 - System
 - Wireless
 - 3G
 - Status
 - Basic Settings
 - SIM Security
 - Management
 - Tools
 - Device Front Panel
 - Save
 - Logout
 - Reboot

Information

This page shows the current status and some basic settings of the device.

System Information

Provider	CHN-UNICOM
APN	3gnet
Service Type	GSM w/EGPRS
IMEI	359998040989545
Signal Strength	-85 dBm(Medium)
SIM Status	SIM OK
Connection Status	Connected
IP Address	10.57.167.226

Refresh

Live Demo 2 – 3G Routing

Speed Test by your cellphone

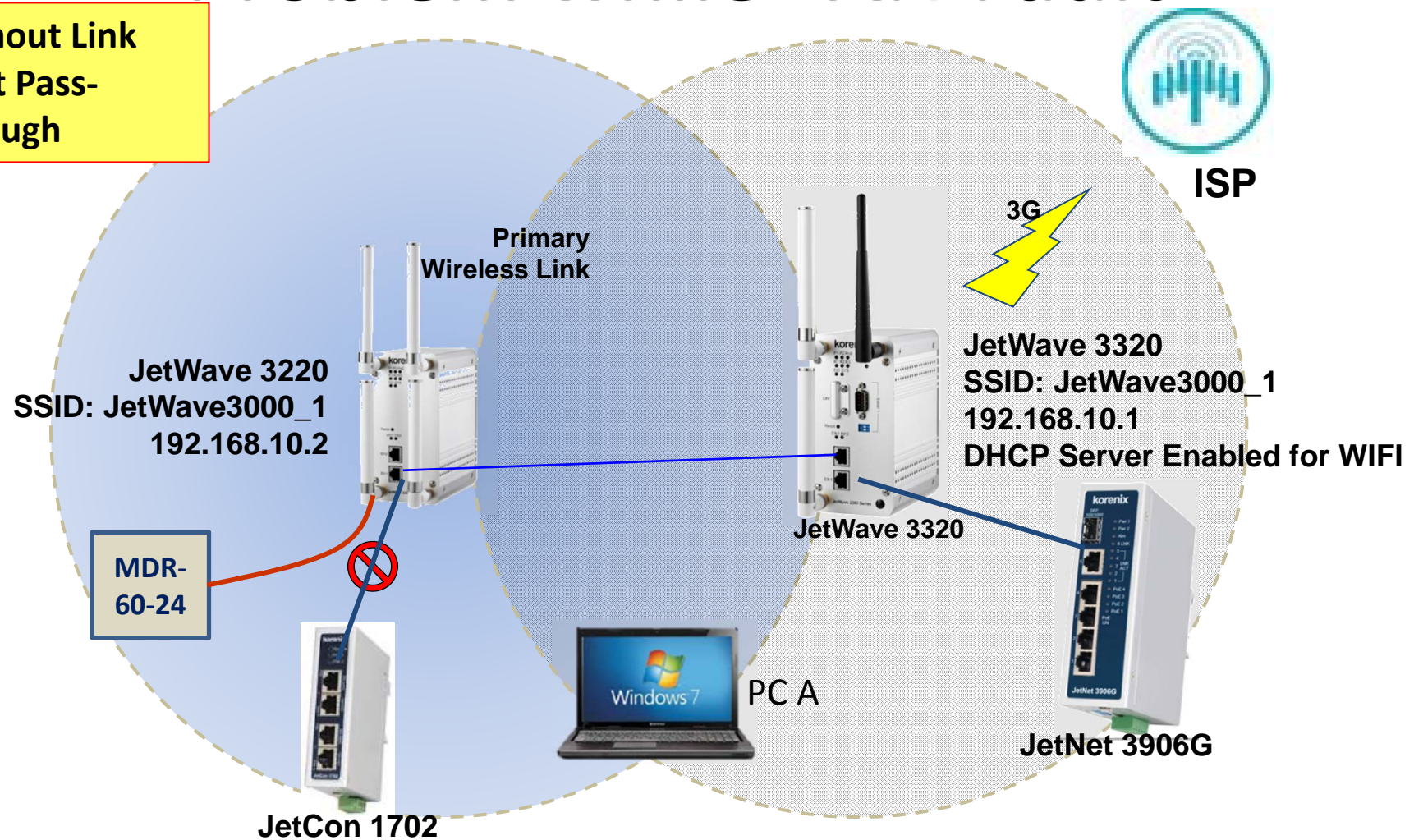
- Plug in your local 3G SIM Card before startup. The JetWave 3320 will automatically connect to ISP.
- Connect your cellphone or laptop to AP, the client can get IP from JetWave 3320. (DHCP Enabled)
- Surfing the internet.
- Run the Speed Test tool.
- **Note:** You can download the Speed Test APP from Google Market/Apple Store, run Speed test to prove the 3G is connected well.



Live Demo 3

- Problem while LAN Fault

Without Link
Fault Pass-
Through



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JETWAVE

Your Industrial Computing & Networking Partner

JetWave3220

- Status
- System
- Wireless
 - WLAN 1
 - Basic Settings
 - Security Settings
 - Advanced Settings
 - Access Control
 - WLAN 2
- Management
- Tools
 - Device Front Panel
 - Save
 - Logout
 - Reboot

Wireless Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will take.

A-MPDU aggregation:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
A-MSDU aggregation:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Short GI:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
RTS Threshold:	<input type="text" value="2347"/> (1-2347)
Fragment Threshold:	<input type="text" value="2346"/> (256-2346)
Beacon Interval:	<input type="text" value="100"/> (20-1024 ms)
DTIM Interval:	<input type="text" value="1"/> (1-255)
Preamble Type:	<input type="radio"/> Long <input checked="" type="radio"/> Auto
IGMP Snooping:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
RIFS:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Link Integration:	<div style="border: 1px solid black; padding: 2px;"> <input type="radio"/> Disable <input checked="" type="radio"/> WLAN links LAN <input type="radio"/> LAN links WLAN <input type="radio"/> WLAN and LAN link each other </div>
Space In Meter:	
Antenna Number:	<input type="radio"/> One <input checked="" type="radio"/> Two
Roaming:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply Cancel

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Live Demo 3

- Problem while LAN Fault

- Configure the same SSID, WIFI Security to both the JetWave 3220 and JetWave 3320.
- Connect your laptop to the JetWave 3220. Go to JetWave 3220 GUI Association list, check whether the laptop is connected to the JetWave 3220. (You can kick the laptop MAC from JetWave 3320 Association list. If it is failed, unplug PoE cable between Jetwave 3320 and JetNet 3906 to shutdown JetWave 3320 is an option.)
- PC A Continuously Ping JetWave 3220 (192.168.10.2) and Surfing Internet through JetWave 3320's 3G network.
- Configure the Link Integration (Link Fault Pass-Through) setting to "WLAN and LAN Link each other" in JetWave 3220 Web GUI.
- While the Ethernet Link (Data) between JetWave 3220 and JetNet 3906G is failure, the PC A can not ping JetWave 3220, however, the 3G network is still activated (around 3 second lost due to JetWave 3220 WIFI Radio is shutdown.)

Live Demo 3

- Problem while LAN Fault

- Explain problem without the LAN Integration (Link Fault Pass-Through):
 - While the Ethernet Link (Data) between JetWave 3220 AP and JetNet 3906G failure, the PC A still connect to the JetWave 3220.
 - The PC A doesn't know the Ethernet connection failure, PC A will not search/connect to new available AP.
 - The problem is **The WIFI connection is activated, but, the Ethernet connectivity is failed.**

Thanks a lot!

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