

**JETWAVE**

## Industrial Cellular Router/Gateway

# JetWave 2512 Series



- Industrial Slim Size Cellular Router/IP Gateway
- Global 5G NR/4G LTE cellular connections
- Dual SIM for Carrier Provider Redundant
- 2 x Giga Port Routing/Bridging
- VPN/Firewall/DMZ and Secure VPN Connectivity
- IEEE 802.11n 2.4G WIFI, up to 2T2R MIMO, 300Mbps
- LAN/WIFI to LTE Routing
- Remote management by Web GUI, SNMP, DDNS
- 24V(9-36V) DC power input
- Wide Temperature, Heavy Industrial Grade design
- PoE PD (48V) Power input (PoE+ 802.3at)



### Overview

The JetWave 2512 series is a slim size industrial grade secure Cellular Router/IP Gateway for the Ethernet to cellular machine-to-machine (M2M) communication market. The JetWave 2512 Series equips with one embedded 5G/4G LTE module, dual SIM standby for carrier provider redundant, 2 Giga ports for routing or switching.

JetWave 2512 series equips with one additional 802.11n 2.4G WIFI as cellular traffic offload and local access solution, it reduce a lot of connecting cost. The cellular router/gateway also supports remote management, secure connectivity, firewall/NAT features. The industrial grade design supports 24V(9-36V)DC input or PoE PD (48V) power on, wide operating temperature and heavy industrial grade environment protection.

Model Name	5G	4G LTE	WIFI	Ethernet	SIM	Operating Temp.
JetWave 2512-WIFI	5G	4G LTE	2.4G WIFI	2xGE	2	-30-70°C
JetWave 2512	5G	4G LTE	N/A	2xGE	2	-30-70°C



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## Ultra-Fast Speed 4G/5G Network

JetWave 2512 supports 5G NR and 4G LTE DL speeds of up to 1 Gbps. The wide spectrum bandwidth accelerates internet speeds and reduces network latency for premium and time-sensitive connectivity services. JetWave 2512 also supports multi-band connectivity including LTE FDD/TDD and WCDMA for a wide range of applications.



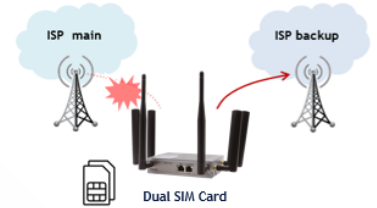
## Broadband Failover

JetWave 2512 can be configured to use Ethernet or Wifi as primary internet and failover to 4G/5G in the event of an outage. IPSec, OpenVPN and GRE protocols can be used for connections into core networks.

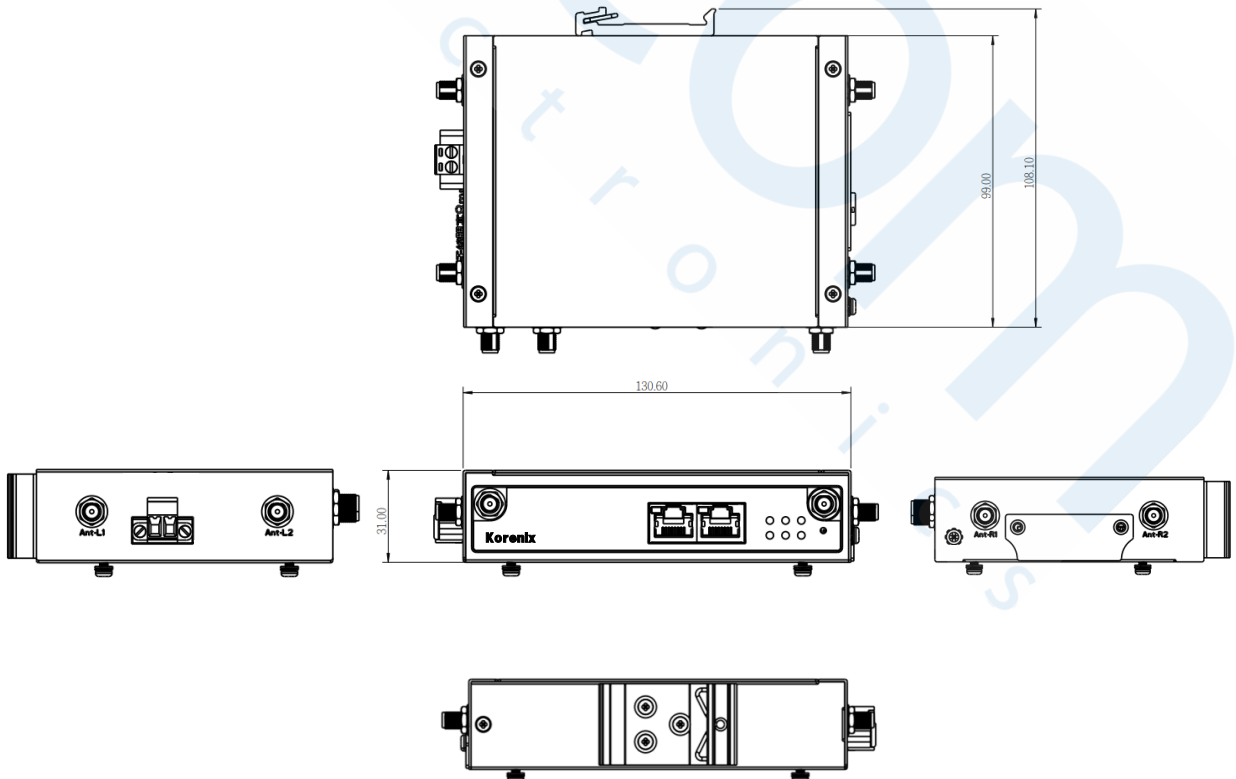


## Dual SIM Standby for 5G/4G LTE Redundancy

The product support dual SIM standby for 5G/4G LTE Redundant. While the primary SIM connection fails, the second SIM recovers to the other carrier provider.



## Specification



# Specification

Technology	
Standard	IEEE 802.3 for 10BaseT IEEE 802.3u for 10/100Base-TX IEEE 802.3ab for 1000BaseT IEEE 802.11n/g Wireless LAN IEEE 802.11i Wireless Security
Interface	
Ethernet Port	2x 10/100 /1000 Base-T(X) RJ-45
Cellular	5G or 4G LTE for the cellular machine-to-machine (M2M) communication
WIFI	IEEE802.11n, 2.4G Ban
SIM Socket	2 (Dual SIM Standby)
Power Input	1x 24VDC (9-36VDC) input or PoE PD (48V)
Reset	Reset Switch, Reset to Default over 12 seconds
LED	Power: OFF/Steady On/Flash WIFI:OFF/Steady On/Flash SIM-A:OFF/Steady On/Flash SIM-B:OFF/Steady On/Flash Cellular Signal:OFF/Steady On/Flash Eth 1, Eth 2:OFF/ON
SMA Antenna Socket	Socket A : 5G/4G LTE 1 Socket B : 5G/4G LTE 2 Socket C : 5G/4G LTE 3 Socket D : 5G/4G LTE 4 Socket E : WIFI 1 Socket F : WIFI 2
WIFI	
Operating Frequency	FCC : 2.412-2.462GHz CE : 2.412-2.472GHz (Programmable for different country regulations)
MIMO	2T2R
RF Modulation	802.11g/n: OFDM (BPSK,QPSK,16-QAM,64QAM)
Mode	AP Router, WDS, WDS Hybrid Modes
Cellular	
5G	n1 / n3 / n5 / n7 / n8 / n20 / n28 / n41 / n66 / n71 / n77 / n78 / n79
4G LTE FDD	B1/ B2 / B3 / B4 /B5 /B7 /B8 /B12 /B13 /B14 /B17 /B18 /B19 /B20 /B25 /B26 /B28 /B29 /B30 /B32 /B66 /B71
4G LTE TDD	B34 /B38 /B39 /B40 /B41 /B42 /B46 /B48
WCDMA/HSPA+	B1 /B2 /B3/B9 B4 /B5/B6/B19 /B8

<b>Management</b>	
<b>Management</b>	Web GUI, Telnet, SNMP, IP Setup, DDNS Setup, Management VLAN ID, Configuration Backup/Restore, Firmware Upgrade, Reload Default, Ping, SNTP
<b>WLAN Setup</b>	Wireless Basic Settings, Multiple SSID, Radio on/off, SSID Broadcast, VLAN ID, Advanced Settings; LTE/WAN Failover
<b>5G/4G LTE</b>	5G/4G LTE Configuration, SIM Security, Status, Debug Log, Auto IP Report, Watchdog, Mobile Management, Dual SIM Standby/Redundant, Cellular/Eth-WAN Redundant, IPv4/6
<b>Router/Gateway</b>	NAT Routing, DHCP Server/Client
<b>SNMP</b>	Simple Network Management Protocol v1/v2c/v3, Function-based MIB, SNMP Trap
<b>Status</b>	System Information, Bridge Table, ARP Table, DHCP Client List
<b>System Log</b>	System events log
<b>Security</b>	
<b>Secured Access</b>	Packet Filter, URL Blocking, MAC Filter
<b>Firewall</b>	SPI Firewall with Stealth Mode, IPS
<b>VPN</b>	IPSec, OpenVPN, PPTP, L2TP, GRE
<b>Power Requirement</b>	
<b>Power</b>	DC24V (9-36VDC) input PoE PD (48V) (PoE+ 802.3at)
<b>Power Consumption</b>	Full Load: Max. 30 Watts *Suggest to reserve 15% tolerance power in practical installation.
<b>Mechanical</b>	
<b>Enclosure</b>	Metal housing
<b>Mounting</b>	Din-Rail, Desktop
<b>Dimension</b>	131 mm(H) x 100 mm(D) x 30 mm(W)
<b>Weight</b>	780g with package
<b>Environmental</b>	
<b>Operating Temperature</b>	-30 - 70°C
<b>Operating Humidity</b>	10% - 95% (operating)
<b>Storage Temperature</b>	-40 - 85 °C
<b>Approvals</b>	
<b>Certification</b>	EMI: EN 55032: 2015 +AC: 2016 Class B, EN61000-3/-6 EMS: EN 55024, IEC 61000, EN61000-6 Radio: EN 301 489, EN 300 328 Safety: EN 60950-1, EN 62368-1
<b>Warranty</b>	3 years
<b>Model</b>	
<b>JetWave2512-WIFI</b>	Industrial Cellular Router/Gateway, 2xGE, 4G LTE/5G, 2.4G WIFI
<b>JetWave2512</b>	Industrial Cellular Router/Gateway, 2xGE, 4G LTE/5G