



Networking Communication Product Portfolio

Reliable M2M and ISP/Telcos Solutions

Explore New Revenue Generating Opportunities and Deliver the World to You





“Award-winning routers for SoHo, SMB and Enterprise

Since 1992, our Communication Division has been dedicated to the innovations in R&D, manufacturing and brand marketing to develop the next generation of network equipment and Internet access devices. Targeting the SoHo, telecom operators, and SMB users, we provide a comprehensive portfolio of customizable, cellular CPE devices to multi-national customers across five continents and over 50 countries worldwide. Ranging from xDSL, GPON, fiber routers, 802.11n/ac wireless routers, fixed 3G/4G LTE routers to outdoor LTE ODU, our complete line of networking products not only turns quality, stability, flexibility and attentive service into reality, but also consistently offers these important values to our customers.



▲ Billion's award-winning routers are available through the channel

Content

4	M2M Series	11	DSL Series	14	DSL+Wireless AP+VoIP
	<ul style="list-style-type: none">• M600• M500• M100 / M150• M50U• M100-NB• M120N• 7800NZ• 7820NZ• 8920NZ• 8200AZ		<ul style="list-style-type: none">• 7800X• 8900X <i>R3</i>		<ul style="list-style-type: none">• 7800VDOX• 7800VDPX• 8200VAXL-1200• 8700VNXL• 8700VAXL-1600
8	LTE Series	12	DSL+ Wireless AP	16	P2P Fibre Series
	<ul style="list-style-type: none">• 4700A• 4700AZ• 4700ZU• 4700ZUL• 4500NZ(L) <i>R2</i>• 4500VNO(P)Z <i>R2</i>• 4520NZ(L) <i>R2</i>• 4520VNO(P)Z <i>R2</i>• 4520AZ• 4520VAOZ• 4400CR(L)-Q2		<ul style="list-style-type: none">• 7700N <i>R4</i>• 7800NX• 7800DX• 7800DXL• 8200NXL• 8200AXL-1200• 8700NEXL <i>R2</i>• 8700NEXL <i>R3</i>• 8700AXL-1600• 8900AX-1600 <i>R2</i>• 8900AX-2400• 8920AX-1600• 8920AXL-1600		<ul style="list-style-type: none">• 9800NX• 9800VNX• 9800VNX-PD• 9900VA-2100

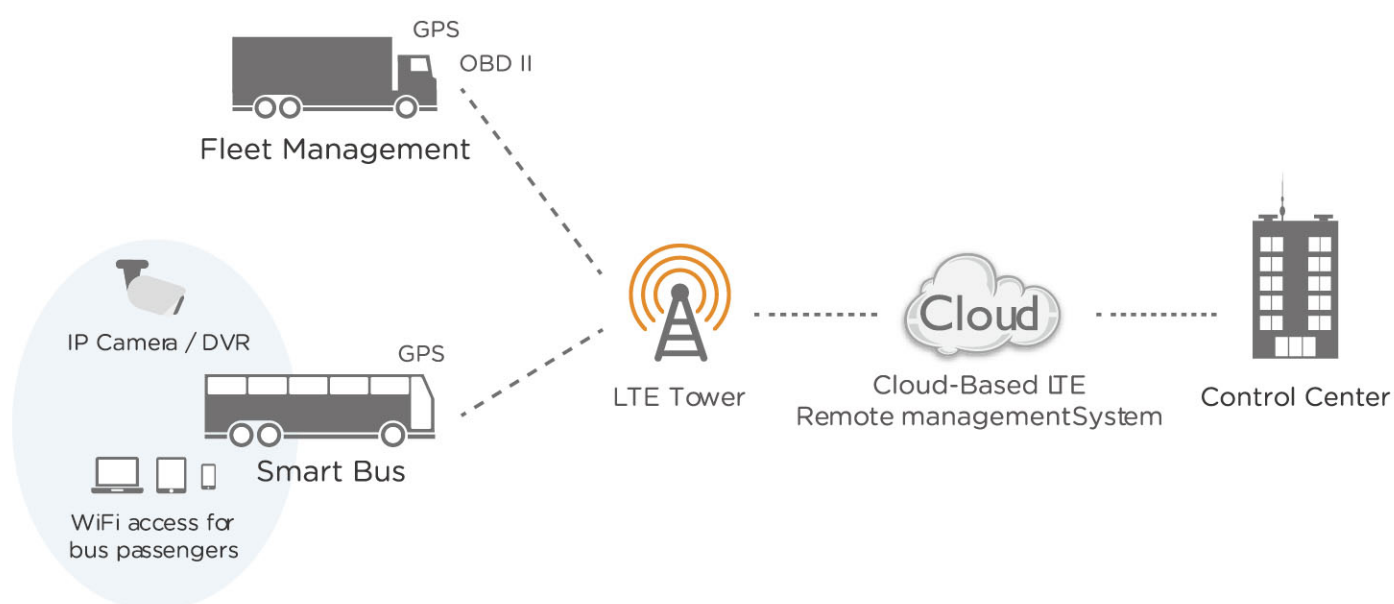
M2M Series

Ranging from telematics, fleet management, smart bus, smart city and public safety, to retail PoS (Point-of-Sales), Kiosks, ATM, and vending machine applications, Billion M2M series can add competitive edges to commercial business and drastically boosts your system productivity by maximizing operational efficiency and overall facility performance.

In-Vehicle Solutions

Intelligent In-Vehicle WiFi Hotspot Solution for Smart Bus System

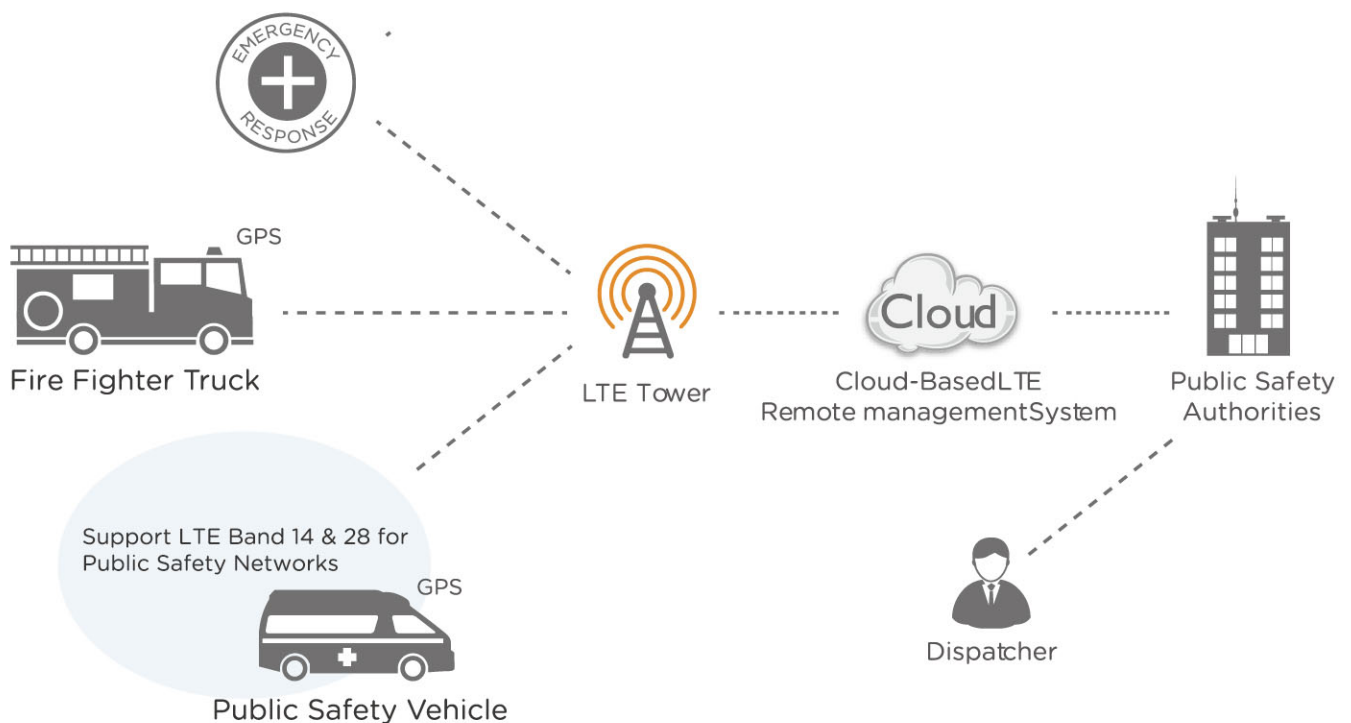
Bus companies look for reliable Smart Bus solutions that can provide free or pay-for-use WiFi Hotspot service in the vehicles as well as the delivery of vehicle status back to the centralized dispatch center for real-time management. Billion M500/M600 provides an excellent in-vehicle networking CPE equipped with dual radios, assisting system integrators in designing an always-on wireless architecture with the advancement of and Hotspot captive portal. Supporting 10-56V DC power input designed with ignition sensing and GPS/GLONASS for location tracking, Billion M500/M600 is an industrial-grade, in-vehicle router that has passed the European E-Mark (E1) certification.





Fleet Management Tracking Solution Maximizes Dispatching Efficiency

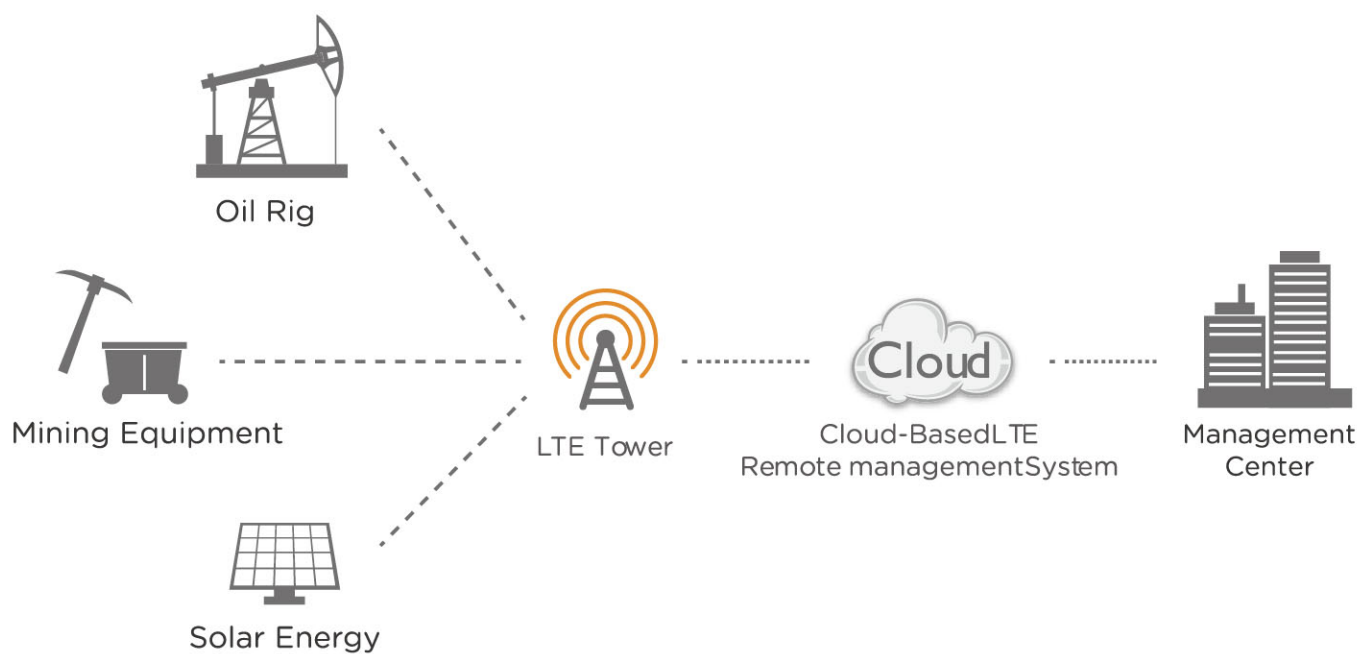
Billion M500/M600 provides dual LTE modules, enable in-vehicle WiFi, real-time multimedia streaming, and medical data transferring with auto failover capability. Ambulance staff is allowed to examine patient media records, plan driving routes, and communicate with emergency department and fleet dispatchers to allocate the available vehicle resource to resolve emergency scenarios. The dual-radio supports multi-channel video streaming with always-on, extensive broadband feasibility. Thus, Billion M500/M600 can transmit the images of a patient's injuries from the ambulance to the emergency department for treatment advice and minimize the gaps of medical care upon arrival at hospitals.





Reliable Energy: Oil and Gas Networking Solutions

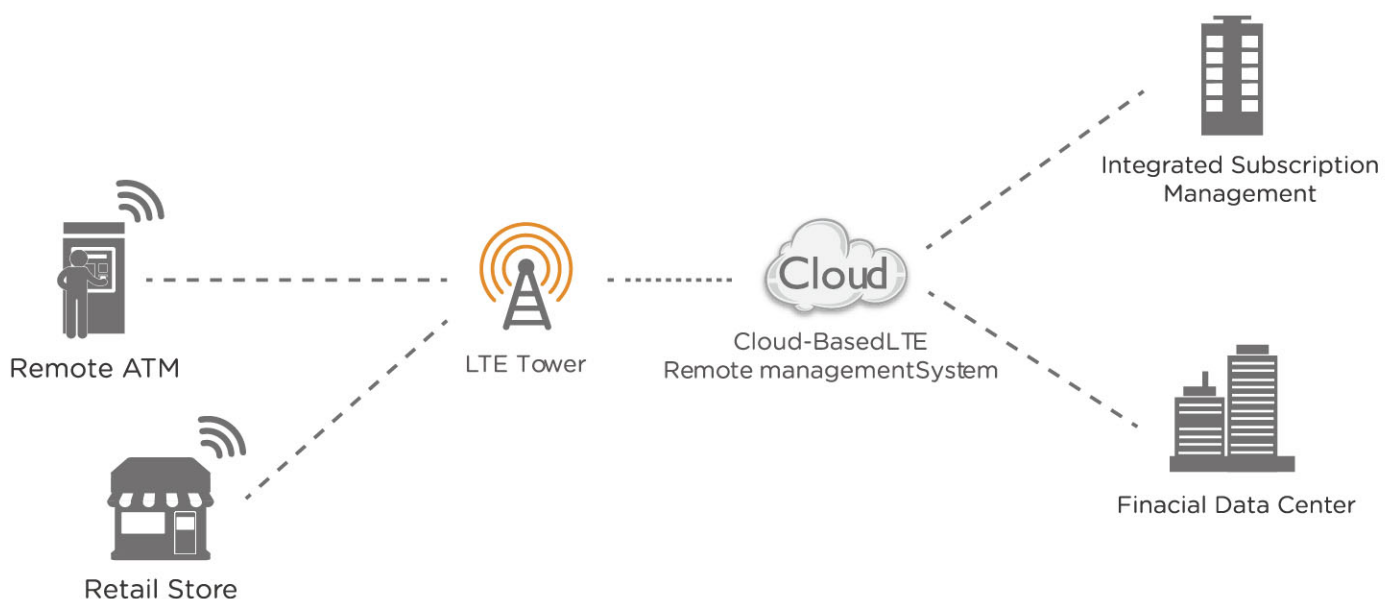
Billion M100 is dedicated to providing the broadband networks ensuring access to high-speed data anytime and anywhere. Such benefits provide tremendous opportunities for this industry to improve business productivity. Billion M100 supports broadband data rates that can easily support the transmission of high-quality real-time media. Real-time video streaming and surveillance are helpful tools to reduce travel time and costs that substantially improve collaboration and shortens the decision-making process.





Finance and Retail PoS, ATM, Kiosk Solutions with Enhanced Data Security

Billion M100 not only allows for fast electronic transactions, but also enables new business models such as targeted marketing, location-based offers, interactive services and an overall improved customer experience. Billion M100 is helping retailers meet consumer expectations and become more competitive by providing wireless technology solutions that quickly integrate with PoS (Point-of-Sale) Systems, ATM (Automated Teller Machines), Multi-purpose Kiosks and Vending Machines.



M2M Routers

M600	M500	M100/M150
		
4G/LTE Industrial/ In-Vehicle Multi-Carrier Router	4G/LTE Industrial/ In-Vehicle Multi-Carrier Router	Advanced Industrial 4G/LTE Router

WAN Interface			
3G/4G LTE	●(x2)	● (x2)	●
Hardware Interface			
SIM slot	2 (x2)	2	1
Gigabit Ethernet	4	4	2
USB	2(USB 2.0)	2 (USB 2.0)	-
802.11n (2.4 GHz)	300Mbps	300Mbps	-
802.11ac (5 GHz)	867Mbps	-	-
GPS	● (Optional)	●	● (Optional)
mini USB	-	● (x2)	-
Serial port (RS-232)	-	-	RS-232/RS-485 (*2)
Features			
VPN	●	●	●
IPv4 / IPv6	●	●	●
Failover / Fallback	●	●	●
Load balance	●	●	●
Dual APNs	●(*1)	● (*1)	● (*1)
Dual firmware images	●	●	●
Metal casing	●	●	●
Operating temperature	-40°C - 60 °C	-40°C - 60 °C	-20°C - 60 °C

M2M Routers

M50U	M100-NB	M120N
		
4G/LTE Dongle	Industrial LTE eMTC/NB-IoT Router	Advanced Industrial 4G/LTE Router

WAN Interface			
3G/4G LTE	●	● (*3)	●
Hardware Interface			
SIM slot	2	1	2
Gigabit Ethernet	-	2	4
USB	1 (USB 3.0)	-	-
802.11n (2.4 GHz)	-	-	300Mbps
802.11ac (5 GHz)	-	-	-
GPS	● (Optional)	● (Optional)	● (Optional)
mini USB	-	-	-
Serial port (RS-232)	-	RS-232	RS-232
Features			
VPN	-	●	●
IPv4 / IPv6	●	●	●
Failover / Fallback	-	●	●
Load balance	-	●	●
Dual APNs	● (*1)	● (*1)	● (*1)
Dual firmware images	-	●	-
Metal casing	●	●	●
Operating temperature	-40°C - 60 °C	-20°C - 60 °C	-20°C - 60 °C

*1 Dual APNs is depended on module.

*2 M100 supports RS-232 only. / M150 supports either RS-232 or RS-485.

*3 eMTC/NB-IoT (Cat.M1/Cat.NB1)

M2M Routers

7800NZ



3G/4G LTE Embedded
ADSL2+ Wireless-N
VPN Firewall Router

7820NZ



3G/4G LTE Embedded
with Dual-SIM Slots
ADSL2+ Wireless-N
VPN Firewall Router

WAN Interface	
ADSL only	●
V/ADSL	-
EWAN	●
3G/4G LTE	●
Hardware Interface	
SIM slot	1
Fast Ethernet	4
Gigabit Ethernet	-
USB 2.0	1
802.11n(2.4GHz)	300Mbps
Features	
VPN	●
IPv4 / IPv6	●
VLAN_MUX	●
Failover / Fallback	●

M2M Routers

8920NZ



3G/4G LTE Embedded
with Dual-SIM Slots
VDSL2/ADSL2+ Wireless-N
VPN Firewall Router

8200AZ



3G/4G LTE Embedded
VDSL2/ADSL2+ Wireless-N
VPN Firewall Router

WAN Interface	
ADSL only	-
V/ADSL	●
EWAN	●
3G/4G LTE	●
Hardware Interface	
SIM slot	2
Fast Ethernet	-
Gigabit Ethernet	5
USB 2.0	1
802.11n(2.4GHz)	300Mbps
802.11ac(5 GHz)	-
Features	
VPN	●
IPv4 / IPv6	●
VLAN_MUX	●
Failover / Fallback	●

LTE Series

4G/LTE represents the latest generation of wireless broadband technology, providing outstanding transmission efficiency, cost effective management tool, substantial bandwidth capacity and broadband service coverage. Billion Electric provides a variety of LTE products, creating superior solutions for in-house or challenging outdoor environments, maintaining strong network connectivity in served or underserved area and enabling service providers and system integrators in niche market to build comprehensive system applications and long-term winning business model to further explore potential business opportunities and generate revenue.

Features and Benefits



Advanced Antenna technology



High Performance Platform and Multiple LTE bands support



High Availability and Network Redundancy



Integrate VoIP and Advanced Telephony Features



High Performance VPN security



IPv6, the path to the future



Carrier Grade Wireless LAN



WiFi Hotspot



Billion Central Management System (Billion CMS) support

Applications and Solutions



Instant POS setup for credit card access in remote area



4G LTE / Wired WANs Failover/Failback



SCADA over VPN tunnel with 4G LTE backup solution



4G LTE outdoor in challenging rugged environment



VPN redundancy solution



Instant outdoor WiFi Hotspot setup with 4G LTE



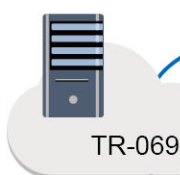
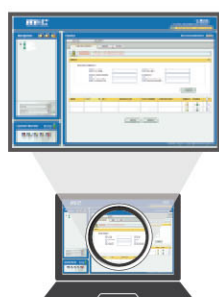
Billion Central Management System (Billion CMS) to remote monitoring and management



IPSEC + GRE solution
Ethernet + GRE solution

CMS (Central Management System)

CMS is designed to remotely control and manage Billion 4G LTE and VDSL/ADSL business routers. It can perform remote firmware update, device reboot, load default setting, CPE configuration backup and restore based on schedule and generate alarm to inform any abnormal event, enabling users to minimize deployment, lower supporting service expenses and maximize operational efficiency.



M2M & 3G/4G LTE Embedded M600/M500/M100/4500/4700

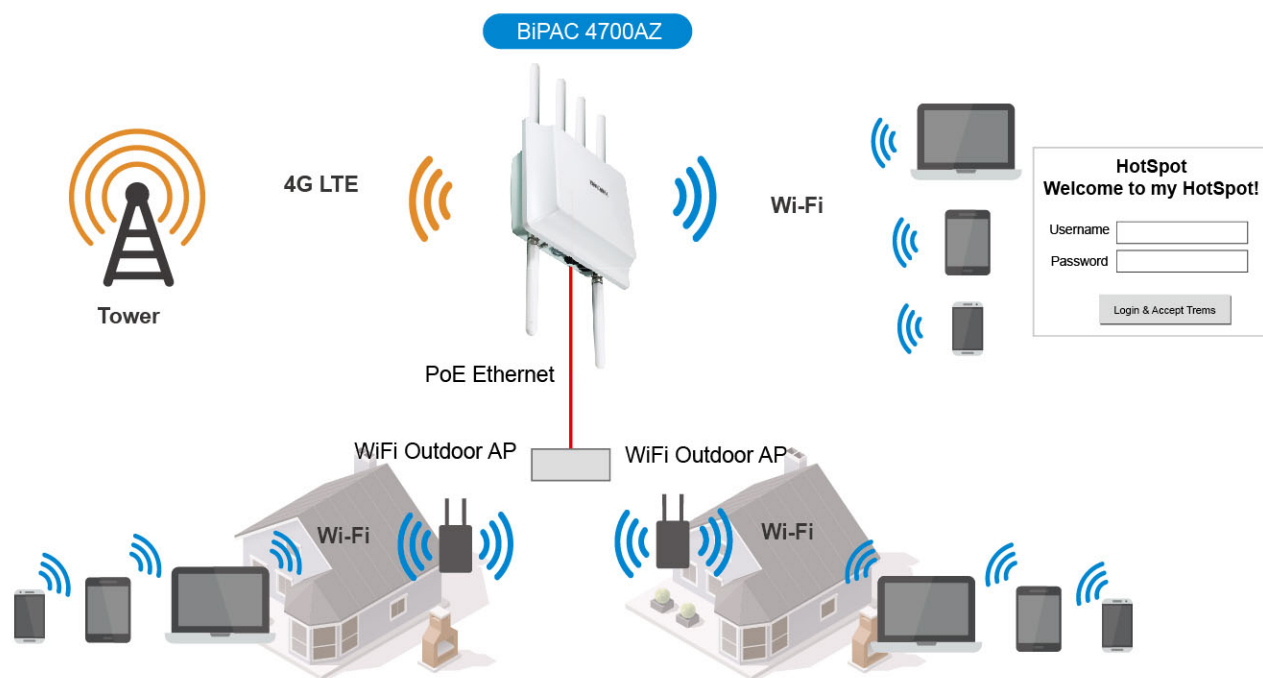
V/ADSL 3G/4G LTE Embedded 7800NZ/7820NZ/8920NZ

ADSL2+ 7800E/7800X/7800NX/7800DX

ADSL2+ VoIP 7800VDOX/7800VDPX

VDSL2 8900X/ 8900AX-1600
8900AX-2400/8920AX-1600

■ Instant Outdoor Wi-Fi setup with 4G LTE as Back-Haul



Outdoor LTE

4700A	4700AZ	4700ZU	4700ZUL
			
Outdoor VPN Router with Carrier-Grade Dual-Band Wi-Fi Hotspot	4G LTE Outdoor VPN Router with Carrier-Grade Dual-Band Wi-Fi Hotspot	4G LTE Outdoor VPN Router	4G LTE Outdoor Router

WAN Interface				
EWAN	GbE	GbE	-	-
3G/4G LTE	-	●	●	●
Hardware Interface				
SIM slot	-	1	1	1
Gigabit Ethernet	2	2	1	1
USB 2.0	-	-	-	-
802.11n(2.4GHz)	300Mbps	300Mbps	-	-
802.11n(5 GHz)	1700Mbps	1700Mbps	-	-
PoE-PD	●	●	●	●
Features				
VPN	●	●	●	●
IPv4 / IPv6	●	●	●	●
802.1q VLAN ID	● (EWAN)	● (EWAN)	-	-
Failover / Fallback	-	●	-	-
Load balance	-	●	-	-
Dual APNs	-	● (*)	● (*)	● (*)
IP65	-	-	-	-
IP67	●	●	●	●


*: Dual APNs is depended on module.

Indoor LTE

4500NZ(L) R2	4500VNO(P)Z R2	4520NZ(L) R2	4520VNO(P)Z R2
			
4G LTE Wireless-N(VPN) Failover Firewall Router	4G LTE VoIP Wireless-N(VPN) Failover Firewall Router	4G LTE Dual-SIM Wireless-N (VPN) Failover Firewall Router	4G LTE Dual-SIM VoIP Wireless-N (VPN) Failover Firewall Router

WAN Interface				
EWAN	GbE	GbE	GbE	GbE
2G/3G	● (*1)	● (*1)	● (*1)	● (*1)
4G/ LTE	●	●	●	●
Hardware Interface				
SIM slot	1	1	2	2
Fast Ethernet	-	-	-	-
Gigabit Ethernet	4 (1 EWAN Configurable)	4 (1 EWAN Configurable)	4 (1 EWAN Configurable)	4 (1 EWAN Configurable)
USB 2.0	1	1	1	1
FXS	-	2	-	2
FXO	-	-	-	-
802.11n(2.4 GHz)	300Mbps	300Mbps	300Mbps	300Mbps
802.11ac(5 GHz)	-	-	-	-
Features				
VPN	● (4500NZ R2 only)	● (4500VNOZ R2 only)	● (4520NZ R2 only)	● (4520VNOZ R2 only)
IPv4 / IPv6	●	●	●	●
802.1q VLAN ID	● (EWAN)	● (EWAN)	● (EWAN)	● (EWAN)
Failover / Fallback	●	●	●	●
Load balance	-	-	●	●
Dual APNs	● (*2)	● (*2)	● (*2)	● (*2)

Indoor LTE

4520AZ	4520VAOZ
	
4G LTE Dual-SIM Slot Dual-Band Wireless-AC VPN Failover Firewall Router	4G LTE Dual-SIM Slot VoIP Dual-Band Wireless-AC VPN Failover Firewall Router

CPE Router

4400CR(L)-Q2

4G LTE Wireless-N VPN CPE Router

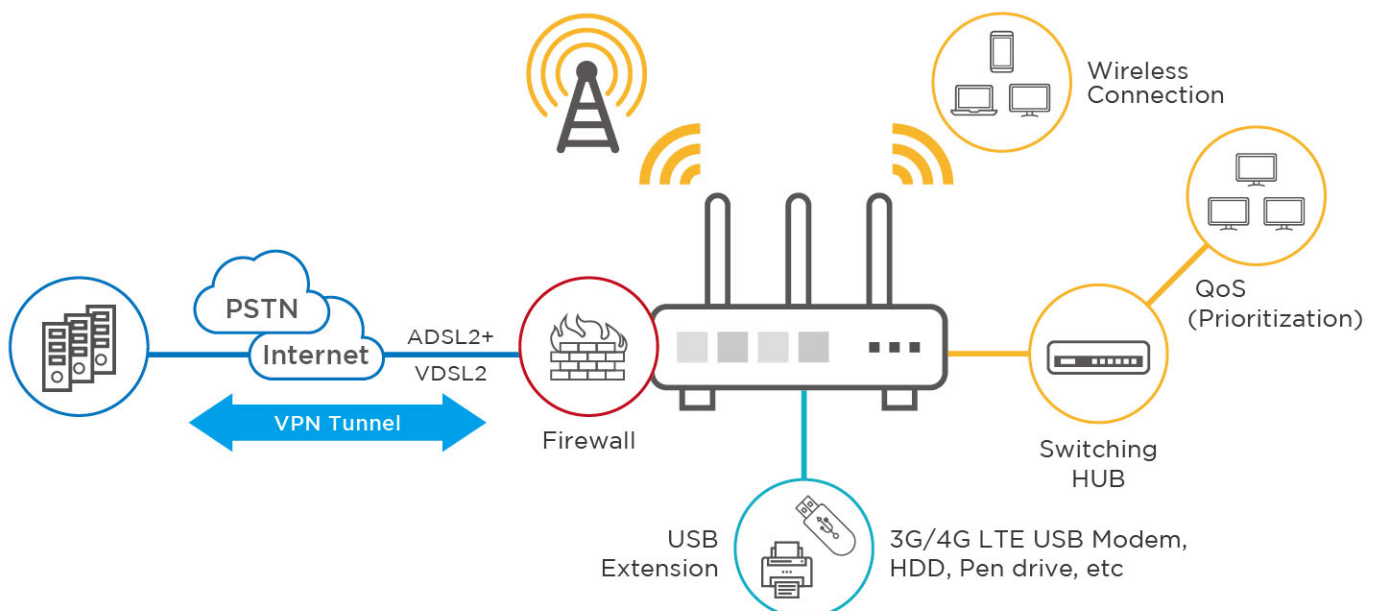
WAN Interface		WAN Interface	
EWAN	GbE	EWAN	●
2G/3G	● (*1)	2G/3G	●
4G/LTE	●	4G/LTE	●
Hardware Interface		Hardware Interface	
SIM slot	2	SIM slot	1
Fast Ethernet	-	Fast Ethernet	4
Gigabit Ethernet	4 (1 EWAN Configurable)	Gigabit Ethernet	-
USB 2.0	1	USB 2.0	-
FXS	-	FXS	-
FXO	-	FXO	-
802.11n(2.4 GHz)	300Mbps	802.11n(2.4 GHz)	300Mbps
802.11ac(5 GHz)	867Mbps	802.11ac(5 GHz)	-
Features		Features	
VPN	●	VPN	●
IPv4 / IPv6	●	IPv4 / IPv6	●
VLAN_MUX	● (EWAN)	VLAN_MUX	-
Failover / Fallback	●	Failover / Fallback	●
Load balance	●	Load balance	-
Dual APNs	● (*2)	Dual APNs	●

*1 2G/3G is depended on module
*2 Dual APNs is depended on module.

DSL Series

Our DSL products are designed to meet the critical demands of SoHo and SMB business users by featuring superior uplink and downlink rates. With the integrated 802.11n Access Point, DSL can automatically adapt to an optimal connection and provide smooth, constant data transmission even if there is a signal interruption.

We offer rich Firewall security such as SPI, and DoS attack to against fraudulent Internet access and hacker threats, thereby ensuring the highest confidentiality to protect digital information and intellectual property. Quality of Service (QoS) and VLAN enable fast HD video streaming, music downloading, online gaming, file sharing, and other large bandwidth-consuming applications. Our DSL solutions provide extremely cost-effective networking solutions with reliable back-to-back connectivity to guarantee the quality of your internet service.



DSL Routers

BiPAC 7800X



3G/4G LTE VPN
ADSL2+/Fibre
Broadband Router

BiPAC 8900X R3



3G/4G LTE
VDSL2/ADSL2+
VPN Firewall Router

WAN Interface		
ADSL only	●	-
V/ADSL	-	●
EWAN	GbE	GbE
3G/4G LTE	via USB	via USB
Hardware Interface		
SIM slot	-	-
Fast Ethernet	-	-
Gigabit Ethernet	4	5
USB 2.0	1	1
Features		
VPN	●	●
IPv4 / IPv6	●	●
VLAN_MUX	●	●
Failover / Fallback	●	●

DSL Routers

7700N R4



Wireless-N ADSL2+
Firewall Router

7800NX



3G/4G LTE Wireless-N
ADSL2+/Fiber
Broadband Router

7800DX



Dual-band Wireless-N
3G/4G LTE
VPN ADSL2+ Router





7800DXL







Dual-band Wireless-N
3G/4G LTE
ADSL2+ Router

WAN Interface				
ADSL only	●	●	●	●
EWAN	●	GbE	GbE	GbE
3G/4G LTE	-	via USB	via USB	via USB
Hardware Interface				
SIM slot	-	-	-	-
Fast Ethernet	4	-	-	-
Gigabit Ethernet	-	4	4	4
USB 2.0	-	1	1	1
FXS	-	-	-	-
FXO	-	-	-	-
802.11n(2.4 GHz)	300Mbps	300Mbps	-	-
dual band 802.11n (2.4 GHz and 5 GHz)	-	-	600Mbps	600Mbps
802.11ac(5 GHz)	-	-	-	-
Features				
VPN	-	●	●	-
IPv4 / IPv6	●	●	●	●
VLAN_MUX	●	●	●	●
Failover / Fallback	-	●	●	●

DSL Routers

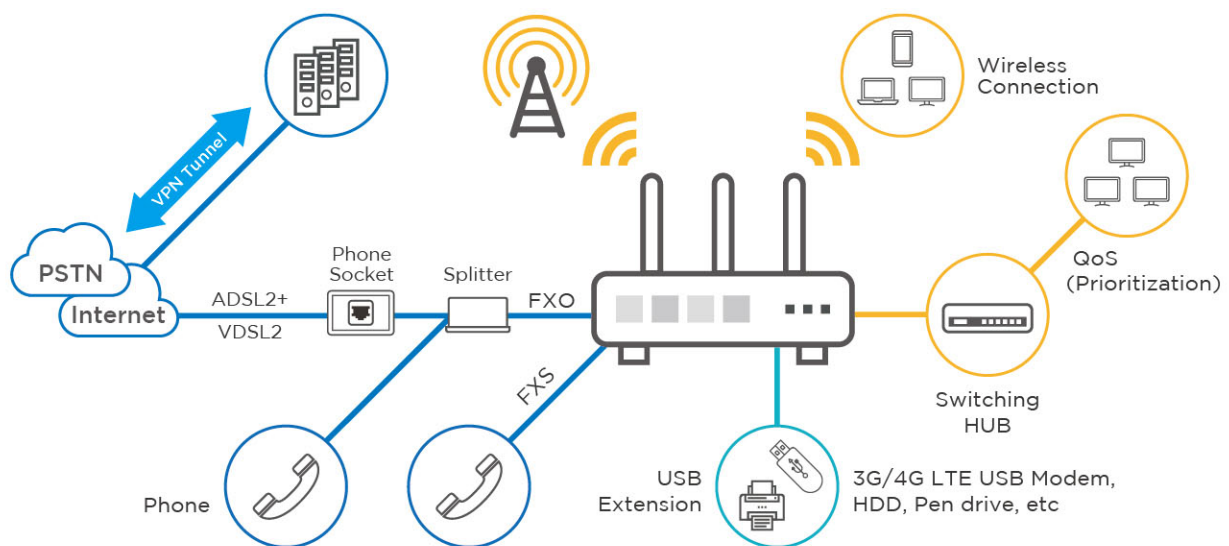
	8200NXL	8200AXL-1200	8700NEXL R2	8700NEXL R3
				
	Wireless-N VDSL2/ADSL2+ Firewall Router	Triple-WAN Wireless-AC 1200Mbps 3G/4G LTE VDSL2/ADSL2+ Firewall Router	Wireless-N 3G/4G LTE VDSL2/ADSL2+ Router	Wireless-N 3G/4G LTE VDSL2/ADSL2+ Router
WAN Interface				
V/ADSL	●	●	-	-
EWAN	-	GbE	GbE	GbE
3G/4G LTE	-	via USB	via USB	via USB
Hardware Interface				
SIM slot	-	-	-	-
Fast Ethernet	4	-	4	4
Gigabit Ethernet	-	5	1 (for EWAN LAN5)	1 (for EWAN LAN5)
USB 2.0	1	1 * USB2.0+1 * USB3.0	-	-
FXS	-	-	-	-
FXO	-	-	-	-
802.11n(2.4 GHz)	300Mbps	300Mbps	300Mbps	300Mbps
802.11ac(5 GHz)	-	867Mbps(2x2)	-	-
Features				
VPN	-	-	-	-
IPv4 / IPv6	●	●	●	●
VLAN_MUX	●	●	●	●
Failover / Fallback	●	●	●	●

DSL Routers

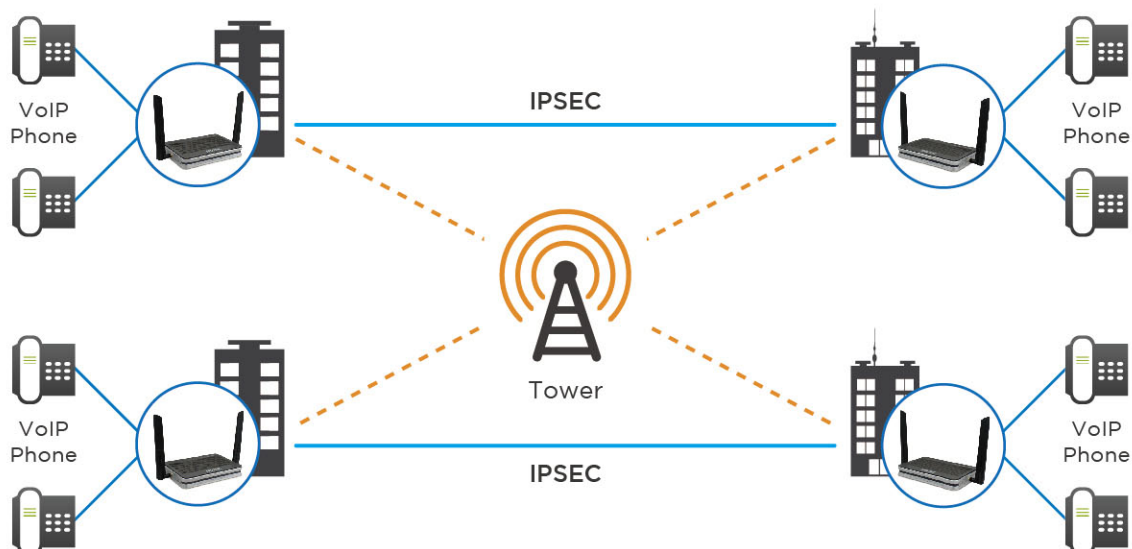
	8700AXL-1600	8900AX-1600 R2	8900AX-2400	8920AX-1600
				
	Wireless-AC 1600Mbps 3G/4G LTE VDSL2/ADSL2+ VPN Firewall Router	Wireless-AC1600Mbps 3G/4G LTE VDSL2/ADSL2+ VPN Firewall Router	Wireless-AC2400Mbps 3G/4G LTE VDSL2/ADSL2+ VPN Firewall Router	Dual-lines VDSL2/ADSL2+ Wireless-AC 3G/4G LTE VPN Firewall Router
WAN Interface				
V/ADSL	●	●	●	●(dual lines)
EWAN	GbE	GbE	GbE	GbE
3G/4G LTE	via USB	via USB	via USB	via USB
Hardware Interface				
SIM slot	-	-	-	-
Fast Ethernet	-	-	-	-
Gigabit Ethernet	5	5	5	5
USB 2.0	1	1	1	1
FXS	-	-	-	-
FXO	-	-	-	-
802.11n(2.4 GHz)	300Mbps	300Mbps	600Mbps(3x3,high power)	300Mbps
802.11ac(5 GHz)	1300Mbps(3x3)	1300Mbps(3x3,high power)	1750Mbps(4x4,high power)	1300Mbps(3x3,high power)
Features				
VPN	-	●	●	●
IPv4 / IPv6	●	●	●	●
VLAN_MUX	●	●	●	●
Failover / Fallback	●	●	●	●

DSL+Wireless AP+VoIP

VoIP (Voice-over-Internet-Protocols), bringing voice over broadband internet connections instead of regular phone lines, benefits service providers and subscribers by offering cost-effective internet dealings to local, long distance, mobile, and international numbers. However, since VoIP data is encountered a soaring risk of being intercepted by hackers, most VoIP users are in need of a reliable network protection that can build encrypted Internet protocols and data transmission. To solve the threatening security issues, we offer both IPsec and VPN (Virtual-Private-Network) technology to strengthen voice data encryption and to secure transmission privacy between headquarters and branch offices.



With the 4G LTE failover and failback capability, voice providers can provide a secure, highspeed internet to backup the connection in case of any network failure. We support common voice settings like call forwarding, call waiting, conference call, anonymous call, block anonymous call, speed dial, return call, and redial, ..etc, as well as help local SIP port setting to resolve any blocking problems. Customizable features and interfaces can be modified, enabling voice providers to offer high-quality, user-friendly network solutions to their customers.



DSL Routers

7800VDOX



Dual-band Wireless-N
3G/4G LTE VoIP
VPN ADSL2+ Router

7800VDPX



Dual-band Wireless-N
3G/4G LTE VoIP
ADSL2+ Router

WAN Interface			
ADSL only	●		●
EWAN	GbE		GbE
3G/4G LTE	via USB		via USB
Hardware Interface			
SIM slot	-		-
Fast Ethernet	-		-
Gigabit Ethernet	4		4
USB 2.0	1		1
FXS	2		2
FXO	1		1
802.11n(2.4 GHz)	1		1
dual band 801.1n (2.4 GHz and 5GHz)	600Mbps		600Mbps
802.11ac (5 GHz)	-		-
Features			
VPN	●		-
IPv4 / IPv6	●		●
VLAN_MUX	●		●
Failover / fallback	●		●

DSL Routers

8200VAXL-1200



Triple-WAN Wireless-AC
1200Mbps 3G/4G LTE
VDSL2/ADSL2+
Firewall VoIP Router

8700VNXL



Triple-WAN Wireless-N
3G/4G LTE VoIP VDSL2/
ADSL2+ Firewall Router

8700VAXL-1600



Wireless-AC 1600Mbps
VDSL2/ADSL2+
3G/4G LTE VoIP Router




WAN Interface					
V/ADSL	●		●		●
EWAN	GbE		GbE		GbE
3G/4G LTE	via USB		via USB		via USB
Hardware Interface					
SIM slot	-		-		-
Fast Ethernet	-		4		-
Gigabit Ethernet	5		1 (for EWAN LAN5)		5
USB 2.0	1 * USB2.0+1 * USB3.0		1		1
FXS	2		2		2
FXO	-		-		-
802.11n(2.4 GHz)	300Mbps		300Mbps		300Mbps
dual band 801.1n (2.4 GHz and 5GHz)	-		-		1300Mbps(3x3)
802.11ac (5 GHz)	867Mbps(2x2)		-		-
Features					
VPN	-		-		-
IPv4 / IPv6	●		●		●
VLAN_MUX	●		●		●
Failover / fallback	●		●		●

■ Complete Active Ethernet FTTH Last-Mile Access Solutions

Active Ethernet FTTH Solutions Last-Mile Access Solutions for Telco/ISP

We provide fibre router series products for Telco/ISP to deploy Giga wired-speed Active Ethernet FTTH last-mile access applications for residential and commercial areas.

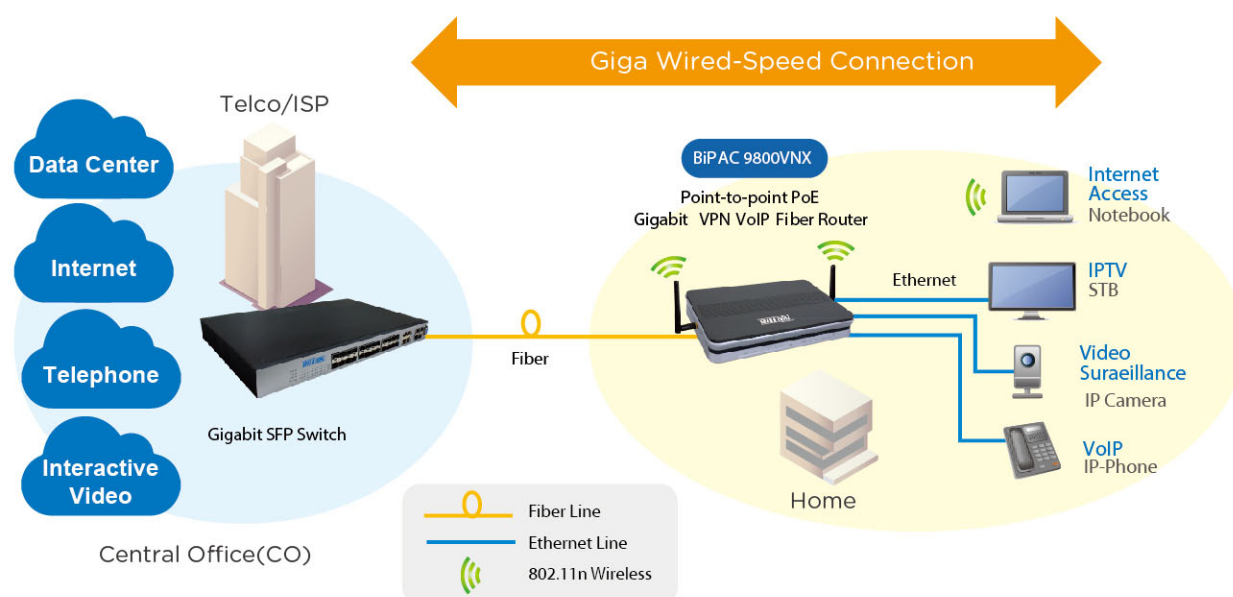
Unique Features

-  A Giga wired-speed connection from CO site to home user
-  Establishes secure VPN connection from branch offices to headquarters
-  Easy deployment with PoE-PD feature

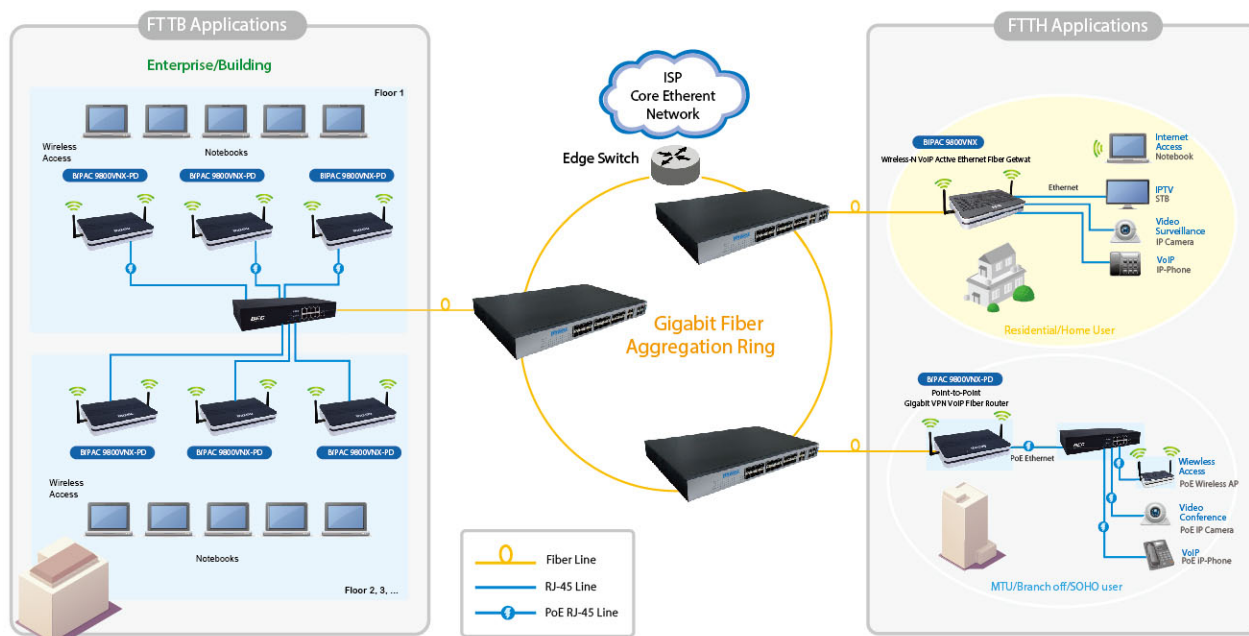
■ AE FTTH Solution for Home Users

A Complete AE (Active Ethernet) FTTH Solution for ISP/Telco to Provide Giga Wired-Speed FTTH Applications to Home Users

Through its Giga fibre connection ports, end users can connect with Billion Giga fibre router - BiPAC 9800VNX, enjoying more cost-effective, faster and safer Giga wired-speed FTTH applications.



■ Application of High Density Communities



P2P Fiber Routers

9800NX	9800VNX-PD	9900VA-2100
		

Wireless-N
Active Ethernet
Point-to-Point
VPN Gateway

Wireless-N VoIP
Active Ethernet
Point-to-Point
PoE-powered Fibre Gateway

Wireless-AC VoIP
Active Ethernet
Point-to-Point
Fibre Gateway

WAN Interface	9800NX	9800VNX-PD	9900VA-2100
P2P fiber Ethernet	●	●	●
EWAN	GbE	GbE	GbE
3G/4G LTE	via USB	via USB	-
Hardware Interface			
SIM slot	-	-	-
Fast Ethernet	-	-	-
Gigabit Ethernet	4	4	3 (1 EWAN Configurable)
USB 2.0	1	1	1
FXS	-	2	2
FXO	-	-	-
802.11n(2.4 GHz)	300Mbps	300Mbps	300Mbps
802.11ac(5 GHz)	-	-	1700Mbps
Features			
VPN	● (9800NXL without VPN)	● (9800VNXL-PD without VPN)	●
IPv4 / IPv6	●	●	●
VLAN_MUX	-	-	802.1q VLAN ID (EWAN)
PoE-PD	-	-	-
Failover / Fallback	●	●	●

About BILLION

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Billion Electric Co., Ltd. (www.billion.com, Taix: 3027, trading as Billion) is the leading global information and communication technology (ICT) solutions provider. We enhance life and communication efficiency through a better-connected world, acting as a responsible corporate citizen, an innovative enabler for the information society, and a collaborative contributor to the industry. Billion's over 700 employees worldwide are committed to creating the optimal value for telecom operators and determined to pursue the position of industry vanguard by providing our current and future customers the highest quality of technology outputs.

Billion Electric Co., Ltd. Taiwan - HQ

8F., No. 192, Sec. 2, Zhongxing Road,
Xindian Dist., New Taipei City,
Taiwan, R.O.C.
TEL : +886-2-2914-5665
FAX : +886-2-2918-2895
E-mail : marketing@billion.com

EG-Billion Electronics (Dongguan) Co., Ltd. China

The Scientific & Technologic Industry Zone
Shijie Town, Dongguan City, Guangdong
Province of China
TEL: +86-769-86633718
FAX: +86-769-86633739
E-mail: marketing@billion.com

BEC Technologies, Inc. USA

Central Region Headquarters
3301 Matrix Drive, Suite 200,
Richardson, TX 75082
USA
TEL : +1-972-422-0877
FAX : +1-972-422-0886
E-mail : marketing@billion.com

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