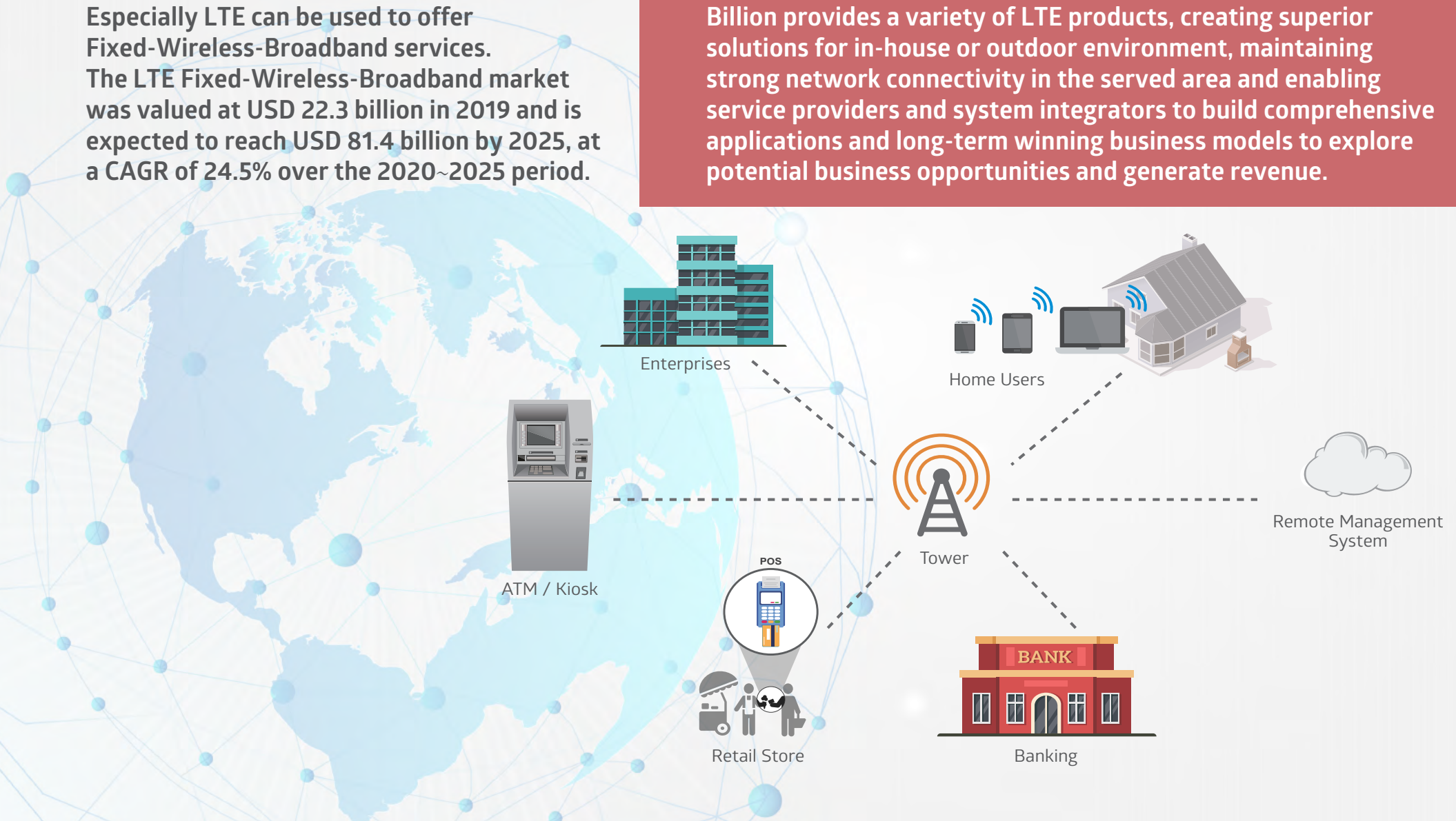


LTE represents the 4th generation of broadband cellular network technology, providing outstanding transmission efficiency and broadband service coverage.

Especially LTE can be used to offer Fixed-Wireless-Broadband services. The LTE Fixed-Wireless-Broadband market was valued at USD 22.3 billion in 2019 and is expected to reach USD 81.4 billion by 2025, at a CAGR of 24.5% over the 2020~2025 period.

Billion provides a variety of LTE products, creating superior solutions for in-house or outdoor environment, maintaining strong network connectivity in the served area and enabling service providers and system integrators to build comprehensive applications and long-term winning business models to explore potential business opportunities and generate revenue.



Features and Benefits



High-Performance
VPN Security



High Availability and
Network Redundancy



Advanced Antenna
Technology



High-Performance
Platform and Multiple
LTE Support



Integrate VoIP and
Advanced Telephony
Features



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



VPN Redundancy Solution



SCADA Over VPN Tunnel
with LTE Backup Solution



IPSEC + GRE Solution
Ethernet + GRE Solution



Instant Outdoor WiFi
Hotspot Setup with LTE



LTE / Wired WANs
Failover/Failback



Manage via SMS



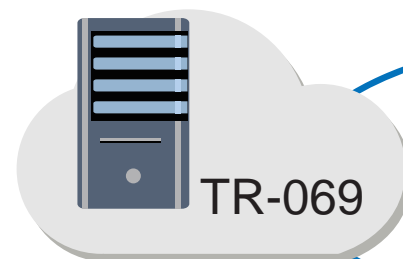
LTE Outdoor in Challenging
Rugged Environment



Billion Central Management System (Billion CMS)
to Remote Monitoring and Management

Billion CMS Central Management System

Billion CMS, a central management platform, is designed for service provider and system integrator to remotely control and manage Billion LTE routers, M2M routers and VDSL/ADSL business routers, enabling users to minimize deployment, lower supporting service expenses and maximize operational efficiency.



M2M & LTE Embedded

M600-PT/M500/4500 series/4700series

xDSL LTE Embedded

8920NZ/8206AZ

xDSL

89/87/82/77 series



4500NZ(L) R2

4500VNO(P)Z R2

4520NZ(L) R2

4520VNO(P)Z R2

LTE
Wireless-N(VPN)
Firewall Router

LTE VoIP
Wireless-N(VPN)
Firewall Router

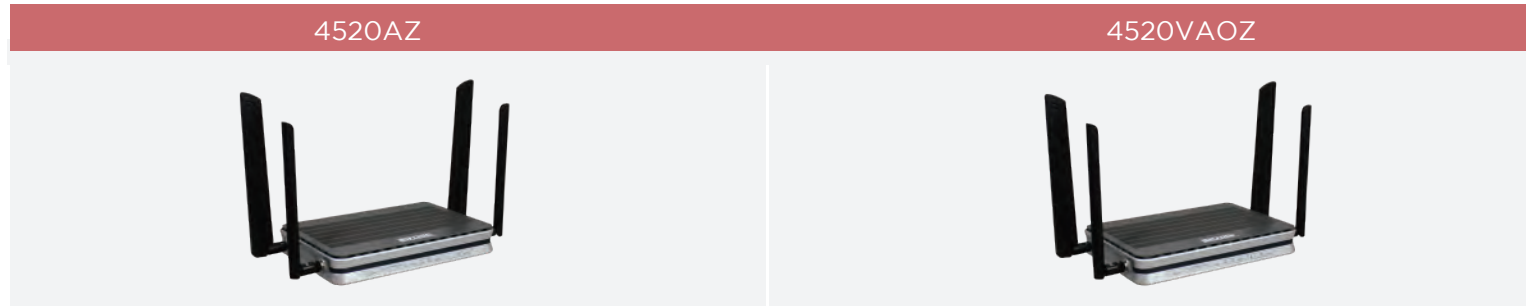
LTE Dual-SIM
Wireless-N (VPN)
Firewall Router

LTE Dual-SIM VoIP
Wireless-N (VPN)
Firewall Router

WAN Interface	4500NZ(L) R2	4500VNO(P)Z R2	4520NZ(L) R2	4520VNO(P)Z R2
EWAN	GbE (*1)	GbE (*1)	GbE (*1)	GbE (*1)
LTE	●	●	●	●
Hardware Interface				
SIM slot	● (x1)	● (x1)	● (x2)	● (x2)
Gigabit Ethernet	● (x4) (Configurable EWAN x1)	● (x4) (Configurable EWAN x1)	● (x4) (Configurable EWAN x1)	● (x4) (Configurable EWAN x1)
802.11n (2.4GHz)	300 Mbps (2x2)	300 Mbps (2x2)	300 Mbps (2x2)	300 Mbps (2x2)
802.11ac (5GHz)	-	-	-	-
USB Host	● (USB 2.0)	● (USB 2.0)	● (USB 2.0)	● (USB 2.0)
FXS	-	2	-	2
Features				
VPN	● (4500NZ R2 only)	● (4500VNOZ R2 only)	● (4520NZ R2 only)	● (4520VNOZ R2 only)
Dual APN	● (*2)	● (*2)	● (*2)	● (*2)
Failover / Failback	●	●	●	●
Load Balance	●	●	●	●
Interface Grouping	-	-	-	-
IPv4 / IPv6	●	●	●	●

*1: Software configurable EWAN.

*2: Dual APNs is only upon request for Telco/ ISP tender projects.



4520AZ
LTE Dual-SIM Slot Dual-Band Wireless-AC
VPN Firewall Router

4520VAOZ
LTE Dual-SIM Slot VoIP Dual-Band
Wireless-AC VPN Firewall Router

WAN Interface		
EWAN	GbE (*1)	GbE (*1)
LTE	●	●
Hardware Interface		
SIM slot	● (x2)	● (x2)
Gigabit Ethernet	● (x4) (Configurable EWAN x1)	● (x4) (Configurable EWAN x1)
802.11n (2.4GHz)	300 Mbps (2x2)	300 Mbps (2x2)
802.11ac (5GHz)	867 Mbps (2x2)	867 Mbps (2x2)
USB Host	● (USB 2.0)	● (USB 2.0)
FXS	-	2
Features		
VPN	●	●
Dual APN	● (*2)	● (*2)
Failover / Failback	●	●
Load Balance	●	●
Interface Grouping	-	-
IPv4 / IPv6	●	●

*1: Software configurable EWAN.

*2: Dual APNs is only upon request for Telco/ ISP tender projects.