MobiMax MX-705N
4G/LTE Router
Datasheet

MobiMax MX-705N is an 802.11n series wireless router with a metal case body which is designed especially for providing reliable, secure and agile connectivity for remote sites, vehicles, IoT and remote workers. The rugged design makes it suitable for deployments in industrial and rugged environments. Designed to work with any 4G/LTE carrier network, 705N enables the freedom to connect from anywhere, new ways to work and enable wide range of use-cases. It offers a maximum transmission rate of 300Mbps and is backward compatible with IEEE 802.11 b/g equipment. It provides 1 USB 2.0 port for storage or a 3/4G dongle along with 1 Micro SD slot.

Hardware

Chipset	Mediatek MT7620A
RAM	DDR2 128MB
SPI Flash	16 MB
Protocol	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u
Wireless Technology	2T2R MIMO Technology, LTE 4G Modem
Wi-Fi Frequency Band	2.4-2.4835 GHz, Channels 1 - 13
Power Consumption	<12W
Device Interface	One SIM card interface One USB 2.0 port Two 10/100 Mbps adaptive LAN interface, Auto MDIX Bracket with lock and key
LED Light	Power, WPS, Wi-Fi, WAN, LAN
Dimension	141mm x 85mm x 26mm
Power Supply	12V, 1A DC
Antenna	4 External detachable antennas 2 for 2.4GHz 2 for 3G/4G Cellular networks

Software Features

Management	Cloud managed, locally managed
Max SSID	4 per Radio
Authentication	WPA/WPA2, RADIUS based wireless authentication Captive portal-based user authentication
Operating Mode Features	Hotspot mode operation Wired and wireless networks Client Isolation Automatic channel selection QoS/WMM Automatic cellular backhaul detection Load balancing Firewall VPN Network outage status Isolated LAN support for both

Environmental Features

Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 70°C
Relative Humidity	5%-95% non-condensing
Storage Humidity	5%-95% non-condensing

Band & Frequency

FDD LTE	B1/B2/B3/B4/B5/B6/B7/B8/B28
TDD LTE	B40
WCDMA	B1/B2/B5/B8
GSM	B2/B3/B5/B8

Networking

Management Platform	UniBox (on-premise) WiOS (Cloud) Standalone
IP	IPv4
VLAN	802.1Q (static and dynamic using Radius)
802.1x	Authentication and Supplicant
Tunnels	L2TP GRE
Firewall	SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding

Accessories

UM-DC-12V	12V, 2A DC Power Supply
UM-Bracket	Included

Performance Capacity

Peak Data Rates	2.4GHz - 300Mbps
Client Capacity	40 Concurrent devices
SSID	4 Per channel

RF Features

Max Data Rate	300Mbps
Max Range	80 meters
Receive Sensitivity	802.11b -83dBm@10% PER 802.11g -74dBm@10% PER 802.11n -68dBm@10% PER
RF Output Power	802.11b 18dBm+-2dBm 802.11g 15dBm+-2dBm 802.11n 15dBm+-2dBm
Wi-Fi Antenna	5dBi omni directional antenna
4G/LTE Antenna	Detachable antenna with RF cable

Wireless

Wi-Fi Standards	802.11ac/b/g/n, MIMO technology
Supported Rates	300 Mbps b/g/n for 2.4 GHz
Supported Channels	Ch.1-13 for 2.4 GHz
MIMO	2x2:2
Spatial Streams	2.4 GHz (2x2)
Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
Meshing	No
Other Features	Per Client, Per SSID, Dynamic Rate Limiting MAC Authentication MAC Filtering Firewall

Ordering Information

Part No.	MobiMax MX-705N

5.2"
135mm

3.2"
8.1mm

1.2"
31mm

297g
0.654lbs

DC

Reset

WAN

LAN Ports

2.4GHz antennas

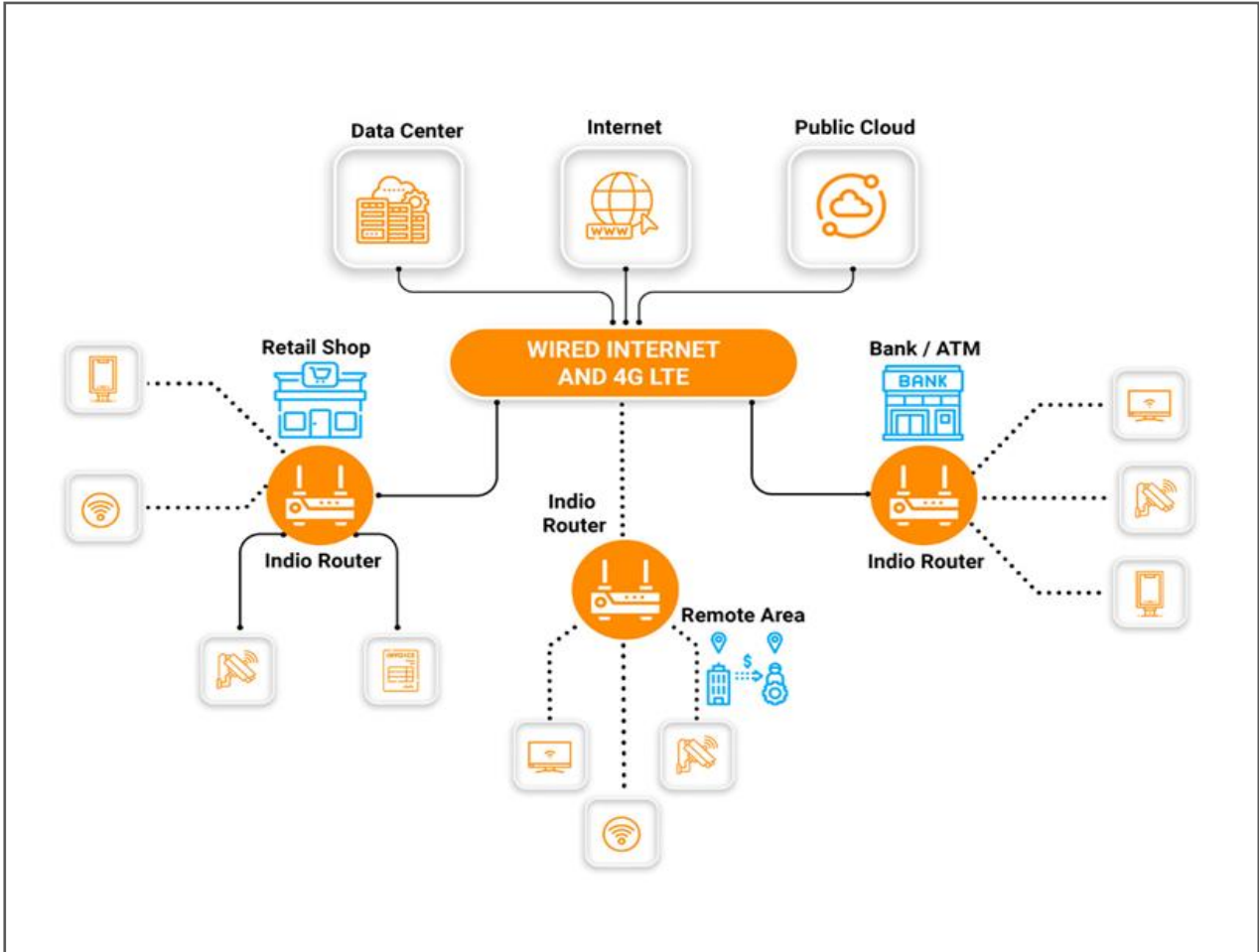4G antennas
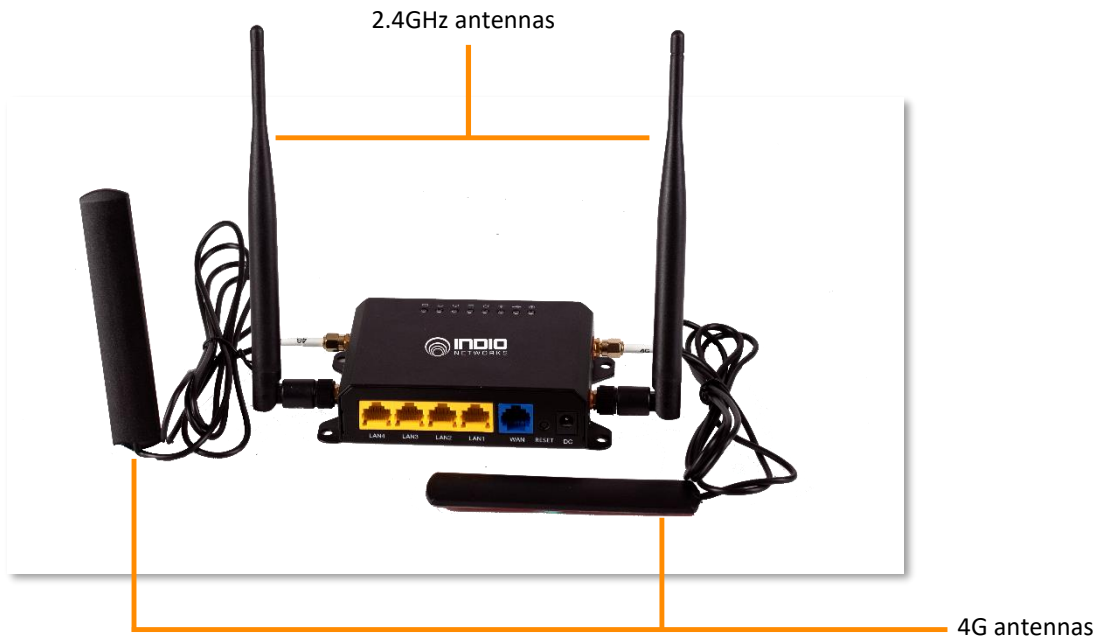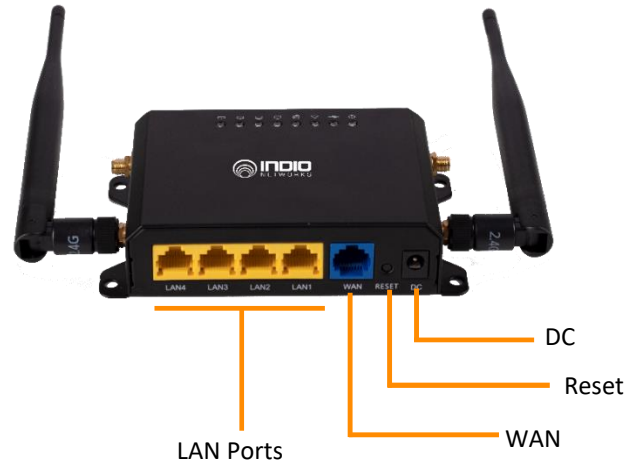
4G Router Deployment

Fig.1 4G router connectivity/use case diagram.

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