ZYXEL
NETWORKS

LTE5398-M904

4G LTE-A Pro Indoor IAD

Zyxel LTE5398-M904 4G Pro LTE-A Indoor IAD supports Cat. 18 and AC2050 Dual-Band concurrent links. Its "Dual-WAN Failover" design guarantees a reliable broadband internet access via either mobile WAN or fixed-line WAN for premium services with lower CAPEX.

Benefits

Lightning-fast internet connectivity

Zyxel LTE5398-M904 employs 3GPP UE downlink Category 18 – the highest-level practice LTE-A Pro technology with data rates of up to 1200/150 Mbps*. The built-In 4x4 MIMO high-performance antennas increase your service capacity and expand the internet coverage for your subscribers.

Easy installation with with space-saving design

The simple and intuitive device design of Zyxel LTE5398-M904 provides your subscribers with a trouble-free installation and configuration experience, while allowing you to maintain an excellent service quality with a lower OPEX.

Non-stop connectivity with "Dual-WAN Failover" design

Designed with the "Dual-WAN Failover" function, the Zyxel LTE5398-M904 guarantees reliable connectivity by using LAN1 port as recovery WAN.

- 3GPP Release 12 Cat. 18 up to 1200/150 Mbps* (DL/UL)
- AC2050 dual-band WiFi AP
- Built-in LTE 4x4 MIMO high-performance antennas
- Dual-WAN Failover (mobile WAN/Ethernet WAN)
- Supports VoIP/VoLTE
- Zyxel Air app (iOS and Android)

Easy installation with Zyxel Air

The LTE5398-M904 comes with a subscriber app – Zyxel Air. The intuitive user interface of Zyxel Air provides the necessary assistance from device setup to routine management. You can minimize service calls during the installation process while enhancing a satisfying user experience.

Boosts efficiency of the existing infrastructure with dual-mode flexibility

The bridge/router function allows service providers to start a new deployment or upgrade services by connecting to the subscriber's existing broadband router with a lower CAPEX.

Specifications

System specifications

IP networking
- Cellular and Ethernet WAN failover and failback
- Supports IPv4/IPv6 dual stack
- DHCP client/server
- VPN pass-through (PPTP/IPSec and L2TP pass-through)
- Data roaming disable/enable
- IP firewall
- NAT/NAPT
- Port forwarding/DMZ
- DNS/DDNS
- Supports router mode/bridge modes (IP pass-through)
- Primary WAN/secondary WAN management

WLAN feature
- WiFi-enabled devices: up to 32
- Auto channel selection
- WiFi Protected Setup (WPS)
- WiFi Multimedia (WMM)
- Security: none, WPA2-Personal, WPA+WPA2
- Multiple SSIDs/hide SSIDs
- WLAN scheduling

Management
- APN management
- SIM PIN/PUK management
- SMS management
- Network selection
- Operating frequency band selection
- Supports Zyxel Air app (iOS and Android) for easy installation and local management only

Hardware specifications

LTE Air interface
- Standard-compliant: 3GPP Release 12 Cat. 18
- Supports LTE bands:
  - LTE FDD: B1/B3/B5/B7/B8/B20/B28
  - LTE TDD: B38/40/41
- Carrier-aggregation up to 5 (more detail information please contact with local sales)
- Peak data rates:
  - 1200 Mbps DL within 80 MHz bandwidth (CA)
  - 150 Mbps UL within 40 MHz bandwidth (intra-band CA)

UMTS Air interface
- Standard-compliant: WCDMA bands B1/3/5/8
- Supported frequencies:
  - HSPA+/UMTS 2100/1800/900/850 MHz (bands 1/3/5/8)
- HSPA+ downlink data rates up to 42 Mbps
- HSUPA uplink data rates up to 5.76 Mbps

WiFi Air interface
- Wireless standard (concurrent)
  - IEEE 802.11 b/g/n, 2.4 GHz
  - IEEE 802.11 a/n/ac, 5 GHz
- WiFi 2.4 GHz antenna: 2x2 internal antennas up to 3 dBi
- WiFi 5 GHz antenna: 4x4 internal antennas up to 5 dBi

Hardware interface
- Two GbE RJ-45 LAN ports. LAN1 can be configured as Ethernet WAN port
- One voice port
- One WPS & WiFi on/off button
- One 3FF micro SIM card socket
- One reset to default button

- LEDs (from left to right on the panel):
  - Power/USB (green/blue)
  - Internet (green)
  - LTE signal strength (green/red/orange)
  - WiFi/WPS (green)
- One power on/off button
- One DC power jack
- One USB 2.0 host port
- Two external LTE/3G SMA connectors

Power consumption

- 24 W (peak)

Physical specifications

- Item dimensions (WxDxH):
  100 x 100 x 205 mm
  (3.94" x 3.94" x 8.07")
- Item weight: 599 g (1.32 lb.)

- Packing dimensions (WxDxH):
  247 x 170 x 120 mm
  (9.72" x 6.7" x 4.73")
- Packing weight: 1600 g (3.54 lb.)

Environment specification

Operating environment
- Temperature:
  0°C to 40°C (32°F to 104°F)
- Humidity:
  10% to 90% (non-condensing)

Storage environment
- Temperature:
  -30°C to 70°C (-22°F to 158°F)
- Humidity:
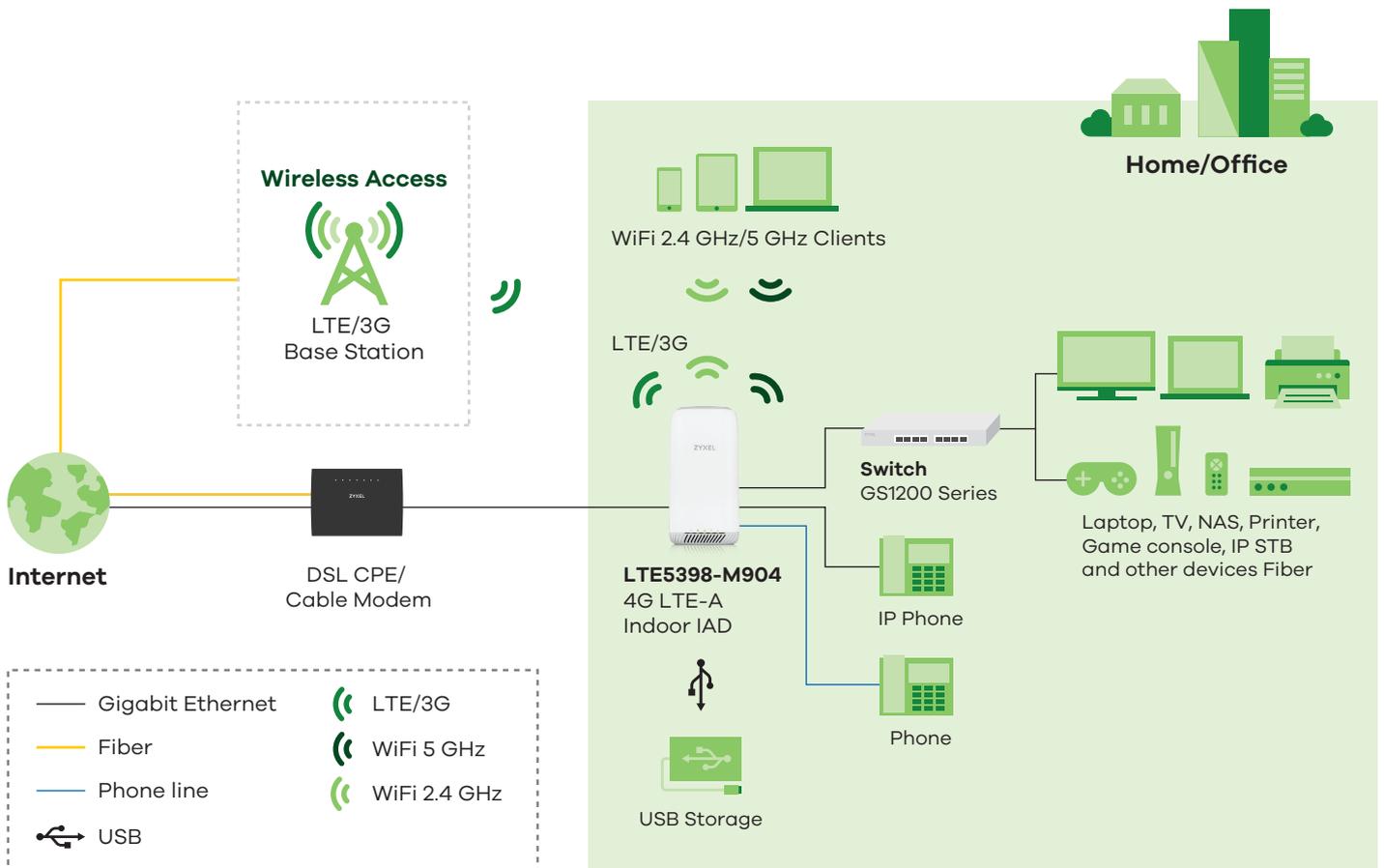 5% to 95% (non-condensing)
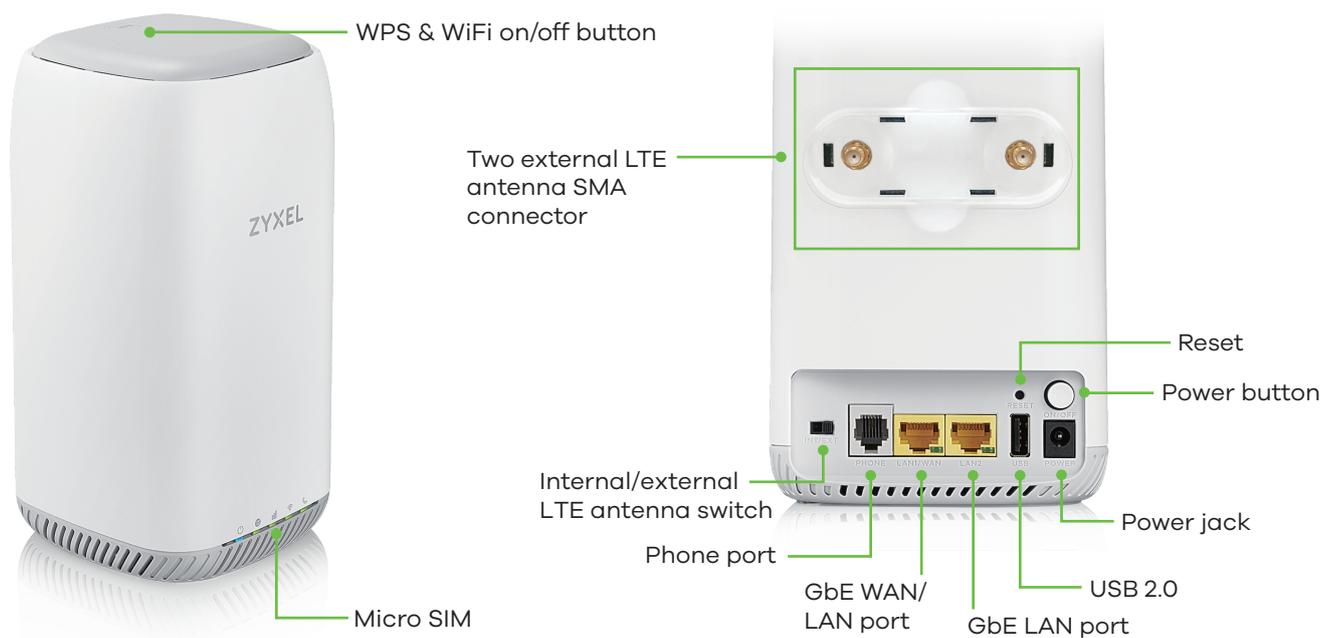
Certification

- CE

Package contents

- Power adapter
  (12 V/2 A EU/US/UK plug)
- Ethernet cable
- Quick start guide
- Warranty card
- CE DoC
- Safety warning

* The maximum wireless data transfer rate is derived from IEEE Standard 802.11 and 3GPP specifications close to AC2050. Actual data transfer rate will vary from network environment including: distance, network traffic, building site materials/construction, interference from other wireless devices, and other adverse conditions.

Application diagram

Wireless Access

LTE/3G Base Station

Internet

DSL CPE/ Cable Modem

LTE5398-M904
4G LTE-A Indoor IAD

USB Storage

WiFi 2.4 GHz/5 GHz Clients

LTE/3G

Switch
GS1200 Series

IP Phone

Phone

Home/Office

Laptop, TV, NAS, Printer, Game console, IP STB and other devices Fiber

Legend:
- Gigabit Ethernet
- Fiber
- Phone line
- USB
- LTE/3G
- WiFi 5 GHz
- WiFi 2.4 GHz

Hardware description

- WPS & WiFi on/off button
- Two external LTE antenna SMA connector
- Reset
- Power button
- Internal/external LTE antenna switch
- Power jack
- Phone port
- USB 2.0
- GbE WAN/ LAN port
- GbE LAN port
- Micro SIM

For more product information, visit us on the web at www.zyxel.com

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Datasheet LTE5398-M904