5G CPE

Indoor 5G CPE

An indoor 5G fixed wireless access (FWA) terminal for home broadband, offices and industrial parks. It connects to 5G Sub-6, LTE, HSPA+, HSPA and UMTS networks and shares the connection over Wi-Fi 6 and Gigabit Ethernet.

A computer or an existing router connects to its RJ45 port. Wherever there is 5G Sub-6 or LTE coverage, users get fast, reliable internet access without a fixed line, and the device is simple to set up and operate.

KEY FEATURES

- 3G, 4G and 5G, covering most of the world's frequency bands
- 5G Sub-6 SA and NSA: up to 4 Gbps down and 900 Mbps up
- Wi-Fi 6 AX1800, dual band concurrent, up to 64 devices
- 2 × Gigabit RJ45 ports (WAN + LAN) and an RJ11 port
- Two external antenna connectors (CRC9)

APPLICATIONS

Home broadband, Small office, Vehicle, Outdoors

BASIC INFORMATION

Dimensions	187 × 110 × 104 mm
Weight	About 534 g
Colour	White or black
Power	12 V / 2 A

AIR INTERFACE

Standards	5G Sub-6 SA / NSA, LTE, HSPA+, HSPA, UMTS
3GPP	Release 16
EAU bands	5G n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78; LTE B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43; WCDMA B1/B5/B8
NA bands	5G n2/n5/n7/n12/n25/n38/n41/n48/n66/n71/n77/n78; LTE B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71/B38/B41/B42/B43/B48
LA bands	5G n2/n5/n7/n28/n66/n78; LTE B2/B4/B5/B7/B8/B28/B66/B42/B43; WCDMA B2/B4/B5

WI-FI

Standard	IEEE 802.11 b/g/n/ac/ax, Wi-Fi 6, dual band dual concurrent
Frequency	2412–2472 MHz / 5150–5825 MHz
Security	Open, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK, WPA3
Max. devices	64

PERFORMANCE

Peak data rates (theoretical)	Wi-Fi AX1800 (2.4 GHz 573.5 Mbps / 5 GHz 1201 Mbps); 5G SA 4 Gbps DL / 900 Mbps UL; 5G NSA 4 Gbps DL / 550 Mbps UL; LTE 300 Mbps DL / 50 Mbps UL; HSPA+ 21 Mbps DL / 5.76 Mbps UL; WCDMA 384 kbps DL / 384 kbps UL
Transmitter power	Wi-Fi 802.11b 18 dBm, 802.11g 16 dBm, 802.11n 15 dBm, 802.11ac and 802.11ax 14 dBm @ 20/40 MHz, 12 dBm @ 80 MHz; 5G NR 23 ± 2 dBm (26 +2/−3 dBm on n41/n77/n78); LTE 23 ± 2 dBm; WCDMA/HSPA 24 +1/−3 dBm
MIMO	Cellular 4 × 4, Wi-Fi 2 × 2

HARDWARE

Cellular chipset	Sanechips ZX298501S + ZX234240RAAA
Wi-Fi chipset	AICSEMI AIC8800M80X2P
LEDs	5G network, 4G network, Wi-Fi status, WPS status, power status
SIM	1 × Nano SIM (4FF) + 1 × eSIM (5 × 6 mm, optional)
Buttons	Power, WPS, reset hole
RJ45	1 × WAN + 1 × LAN, 1 Gbps
RJ11	1 × RJ11
USB	USB 2.0 Type-C (download, debug, RNDIS / ECM)
Antennas	Internal: 5G/4G/3G × 8, Wi-Fi × 2; external: 5G/4G/3G × 2 (CRC9)

SOFTWARE

Network	IPv4 / IPv6, DHCP, automatic APN match, network lock
Routing and security	Port forwarding, IP (port) and MAC filter, DMZ, UPnP, WPS
Messaging and SIM	SMS, USSD, SIM-OTA, phonebook
Management	Data statistics; FOTA and local upgrade
Supported OS	Windows XP SP3 / 7 / 8 / 10 / 11, macOS, Linux
Language	English by default, can be customised

ENVIRONMENT

Operating temperature	−10 °C to +60 °C
Storage temperature	−20 °C to +75 °C
Humidity	5 % to 95 %

Specifications are taken from the product specification sheet and data rates are theoretical peaks. They can change without notice; confirm the details for your project with Commtec.