

WinkyLink

WL5G750

5G Sub-6 Indoor CPE



GLOBAL CONNECTIVITY, LOCAL MASTERY

The WinkyLink WL5G750 Indoor CPE delivers cutting-edge 5G broadband to homes, offices, and businesses without the limitations of traditional wired connections. Designed for global carrier compatibility, it offers up to 10 times faster speeds than 4G LTE, enabling ultra-fast internet for streaming, gaming, remote work, and enterprise needs.



5G NR and LTE-A dual mode



MTK T750 chip solution



Support both SA and NSA



Support Wi-Fi 6



Powerful software features



Web / SNMP / TR-069

External ports: DC jack, RJ45 Gigabit Ethernet(2), SIM Slot, Voice POTS

External ports

- 8 build-in NR/LTE antenna;
- 3 build-in WIFI antennas: AX3000 solution; 2.4G: 21.5dBm; 5G: 21dBm;



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Next-Generation Connectivity for Every Environment

The WinkyLink WL5G750 is a high-performance indoor CPE designed for the true 5G era. Supporting 5G NR, LTE, and WCDMA, it ensures that users can connect to the fastest and most stable networks available, no matter their location. With compatibility across global standards, this device operates seamlessly in multiple regions, including Europe and Asia, without hardware changes.

Wi-Fi 6 for Maximum Wireless Power

Built on the Wi-Fi 6 (802.11ax) standard, the WL5G750 offers significantly higher capacity, faster speeds, and lower latency compared to earlier generations. Dual-band operation on 2.4GHz and 5GHz with 1024-QAM means multiple devices can connect simultaneously without sacrificing performance. This makes it ideal for high-demand environments such as offices, retail spaces, or smart homes.

Robust Hardware Design

Eight internal NR/LTE antennas and three dedicated Wi-Fi antennas (AX3000 solution) ensure strong, stable coverage throughout large spaces, delivering optimized output power of 21.5dBm for 2.4GHz and 21dBm for 5GHz. LED indicators provide instant status updates for power, WLAN, network connection, and signal strength, while dedicated Reset and Multi-Function buttons allow for quick, flexible device management.

Flexible Port and Connection Options

The WL5G750 is equipped with multiple ports to handle diverse connectivity needs: a DC power input, two RJ45 Gigabit Ethernet ports for ultra-fast wired connections, an optional POTS voice port, and a Nano SIM (4FF) slot for direct mobile network access. This versatile configuration makes it equally suited for home setups, professional office environments, and business deployments.

Performance and Real-World Speed

With advanced Carrier Aggregation, the device delivers exceptional performance with downlink speeds using 4x4 MIMO and up to 5CA, and uplink with 2x2 MIMO and 2CA, all enhanced by 256QAM modulation. In 5G SA mode, it achieves up to 4.67Gbps downlink and 1.25Gbps uplink. In 5G NSA, it maintains the same downlink with uplink speeds up to 836Mbps. Even in LTE, it reaches 1.6Gbps download speeds, surpassing many wired broadband connections.

Efficient and Compact Design

Despite its powerful capabilities, the WL5G750 consumes less than 24W of power. Measuring 105 × 105 × 216 mm and weighing under 500g, it is easy to place on a desk, shelf, or other location. The device is built to withstand a wide range of environmental conditions, operating between -10°C and 45°C, storing between -40°C and 70°C, and functioning reliably in 5% to 95% non-condensing humidity.

A Smart Connectivity Hub

The WL5G750 is more than just a modem or router. It is a smart connectivity hub that brings high-speed, stable internet without the limitations of cables or fiber. By combining 5G technology, advanced wireless coverage, and easy management, it is the perfect choice for anyone who demands always-on, high-performance connectivity at home, in the office, or on business premises.

Hardware Specifications

Technical standard	WAN	5G NR/LTE/WCDMA
	LAN	IEEE 802.3/802.3u/802.3ab
	WLAN	IEEE 802.11b/g/n/ac/ax(Wi-Fi 6)
Cellular Band	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
	LTE	B1/B3/B5/B7/B8/B20/28/B32/B38/B40/B41/B42/B43
	WCDMA	B1/B5/B8
	WLAN	2.4GHz and 5GHz with 1024-QAM support
External port	1 x DC jack 2 x RJ45 Gigabit Ethernet port 1 x Voice POTS Port(Optional) 1 x SIM Slot (4FF NANO)	
Antenna	8 build-in NR/LTE antenna 3 build-in WIFI antennas, AX3000 solution, 2.4G: 21.5dBm; 5G: 21dBm	
LED Indicators	1 x Power indicator 1 x WLAN indicator 1 x Net indicator 1 x Tri-color signal strength indicator	
Button	1 x Reset Button 1 x Multi-Function Button	
Carrier Aggregation	DL: 4X4 MIMO, up to 5CA, 256QAM; UL: 2X2 MIMO, 2CA, 256QAM	
Maximum transmission power	5G NR Sub 6 bands	Class 3 -- 23 ± 2dBm
	n40/41/77/78 HPUE	Class 2 -- 26 +2/-3dBm
	4G LTE	Class 3 -- 23 ± 2dBm
	WCDMA	Class 3 -- 24 + 1/-3dBm
Cellular data throughput	5G SA	Downlink: 4.67Gbps; Uplink: 1.25Gbps
	5G NSA/ENDC	Downlink: 4.67Gbps; Uplink: 836Mbps
	LTE	Downlink: 1.6Gbps; Uplink: 211Mbps
Power supply	DC 12V/2A	
Power consumption	<24W	
Dimensions	105mm x 105mm x 216mm	
Weight	<500g	
Humidity	5% - 95% Non-condensing	
Temperature	Working temperature: -10°C to 45°C / Storage temperature: -40°C to 70°C	

Advanced Software Capabilities

The WinkyLink WL5G750 is equipped with a powerful and flexible software suite designed to maximize performance, security, and ease of use. Its advanced features ensure that both casual users and network administrators can manage and optimize the device to meet their specific needs.

Comprehensive Data Services

The WL5G750 supports Multi-APN functionality and full IPv4/IPv6 dual-stack compliance, ensuring smooth connectivity for modern networks. For local networking, it includes DHCPv4/DHCPv6 server and client modes, DNS relay, DMZ configuration, and UPnP for effortless device discovery and integration.

Enhanced Wireless Networking

Built on the IEEE 802.11a/b/g/n/ac/ax standard, the WL5G750 supports MU-MIMO technology for improved multi-device performance. It offers flexible channel widths, including 20 MHz, 40 MHz, 80 MHz, and 160 MHz, to maximize throughput. Wireless security is reinforced with AP isolation, SSID hiding, and a dedicated guest network. It also supports Easy Mesh for seamless coverage across multiple access points.

Robust Device Management

Device administration is streamlined through multiple management tools. Version control includes checksum verification, dual active/backup firmware images, and a rollback mechanism to prevent downtime in case of failed upgrades. Firmware updates can be applied via FOTA (Firmware Over The Air) or remotely using TR-069, allowing for configuration uploads, parameter queries, remote upgrades, and debugging. A built-in WebGUI offers tiered user access levels, secure login, configuration backup/restore, diagnostics export, and real-time WAN/LAN statistics.

Network Diagnostics and Control

The WL5G750 includes comprehensive diagnostic tools, including USIM PIN management, card authentication, and CBSD mode for CBRS band operation. Users can schedule automatic reboots to maintain performance and stability.

Secure VPN Connectivity

For private and encrypted connections, the device supports PPTP and L2TP VPN protocols, enabling secure remote access to internal networks.

Advanced Security Features

The WL5G750 safeguards your network with a built-in firewall, MAC and IP address filtering, and URL filtering. Additional measures include HTTPS WAN login, DDoS attack protection, and hierarchical user management to control access rights at different administrative levels.

Software Specifications

Data Services	Multi APN	
	IPV4/IPV6 dual stack compliance	
LAN	DHCPV4/DHCPV6 server/client DNS relay DMZ UPNP	
WLAN	IEEE 802.11a/b/g/n/ac/ax MU-MIMO Support 20 MHz, 40 MHz, 80 MHz, and 160 MHz modes AP isolation Easy mesh Service set identifier (SSID) hiding Guest network	
Management	Version management	Image Checksum Active version and backup version Rollback mechanism when upgrade fail
	FOTA	
	TR069	Upload/Download the ACS specified file Download the configuration file Configure & Queries parameters Remote upgrade Remote debugging operations Cycle monitor
	WebGUI	Different level of user login priority and different limitation and display Encryption backup current settings and restore the backup settings Export of current diagnosis results and operation logs Statistics of WAN/LAN link status, transmit and receive traffic and up time
	Network Diagnostics	
	USIM PIN management and card authentication	
	CBSD(work only on CBRS band)	
	Schedule reboot	
VPN	PPTP	
	L2TP	
Security	Firewall	
	Mac address filtering	
	IP address filtering	
	URL filtering	
	HTTPS Login from WAN	
	DDOS attach protection	
	Hierarchical user management	

WinkyLink

Power, Speed and Flexibility in One Device

WL5G750



The WinkyLink WL5G750 combines cutting-edge 5G technology with intelligent design to deliver unmatched speed, coverage, and control. Powered by the MTK T750 chip solution, it supports 5G NR and LTE-A dual mode with both SA and NSA compatibility, ensuring seamless operation across Europe and Asia with a single SKU.

With Wi-Fi 6 (802.11ax) delivering up to 3.0 Gbit/s throughput, advanced router capabilities, and flexible device management through Web, TR069, and SNMP, the WL5G750 offers the perfect balance of performance and simplicity. Whether at home, in the office, or running a business, this device is built to keep you connected, secure, and in control.

Perfect for Every Environment

OFFICE



BUSINESS



HOME

