

# KA5312 +KA5113

LTE Outdoor CPE with Indoor Wireless Router

3GPP Release
10/11
CAT6
ALL LTE Bands
PoE
IP65
802.11 b/g/n/ac





KA5312 is a high-performance LTE ODU device, which can provide strong accessibility to the LTE network, and has been designed to meet industrial-grade IP65 dust-proof and water-proof standard. KA5113 is a AC1200 wireless router which can provide ODU power supply. KA5312 ODU with KA5113 IDU in combination is the ideal solution for residential LTE network.

#### **Hardware Specifications**

Spec		Description	
LTE Chipset		GCT GDM7243QT	
LTE standard		3GPP Release 10/11 CAT 6 <sup>(1)</sup>	
Host Chipset		MT7621A	
Flash		7243QT - 2Gb; MT7621A – 1Gb	
RAM		7243QT - 1Gb; MT7621A – 1Gb;	
Power Supply		Gigabit PoE, <sup>(2)</sup> Typical value 24V 1.0A	
Maximum Power Consumption		<14W	
IP rating	9	IP65 (ODU)	
LED	ODU	Power/WAN/LAN/SIM/Sig nal Strength (3)	
	IDU	Power/Internet/WiFi 2.4G/ WiFi 5G/USIM/Signal Strength <sup>(4)</sup>	
USIM		Support 1.8V/3.0V 2FF USIM	
Antenna		4 directional antennas	

- (1) Can Support Cat5, Ca6
- (2) KA5113 has 2 LAN ports & 1 WAN/POE port, supply +12V DC to CW7100B
- (3) 4 Bars
- (4) 4 Bars

# Environment Specifications

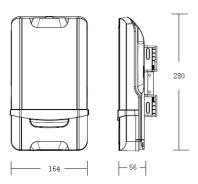
Feature		Capability
Temperature	Operating	-30℃ ~ 55℃
	Storge	-40℃ ~85℃
Humidity	Operating	10 ~ 90%
	Storge	5 ~ 95%

#### **RF Specifications**

Feature		Capability
Support Bands		FDD
		1/2/3/4/5/7/8/20/28
		TDD
		38/40/41/42/43/48
CA		Inter/Intra 2CA
MIMO		DL 2*2, DL 4*4
Тх		1 Tx
Output Power@25℃		23±2 dBm
LTE Antenna		4 directional
		antennas
LTE	700M~1G	5dBi
Antenna	1.7G~2.7G	8dBi
Gain <sup>(1)</sup>	3.4G~3.8G	11 dBi

(1) If the antenna supports all frequency, the antenna gain will be lower than the value in table

#### **Dimensions**







## **Software Specifications**

Language Se	ttings: Simple Chinese, English <sup>(1)</sup>	
	Bridge/Router mode	
	ttp or https web server	
	sers (admin user and normal user)	
	access level and display	
TDD DL 260Mbps UL30Mbps		
Throughput	FDD DL 300Mbps UL50Mbps	
	1000Mbit/s	
LAN	MDI/MDIX auto-sensing	
	IEEE802.3/802.3u is compatible	
PIN Managem	nent, SIM card Authentication	
	ckup current settings and restore	
the backup se		
	t diagnosis results and operation	
logs		
	Link Status (LAN)	
Statistics	Transmit / receive traffic in packets	
	Up Time	
Support multi-APN		
	L2TP V2/V3	
	PPTP	
\ /DNI	GRE L2/L3	
VPN	GRE over IPSec	
	L2TP over IPSec	
	IPSec	
ipv6/ipv4 dual stack		
	Signal strength	
	Network type	
Status <sup>(2)</sup>	Network connection status	
	SIM card status	
	Operator name, system mode	
Support full band or preferred band and		
frequency		
Support PCI lock (Cell lock)		
Only carrier SIM shall work in the CPE		
Support BIP		
(4) Multiple lenguages can be out-to		

- (1) Multiple languages can be customized
- (2) Can be customized

#### **Device Management**

	Image One Version	
Integrity	Image One Checksum	
Check	Image Two Version	
	Image Two Checksum	
Version	Auto Rollback to previous version	
Rollback	when upgrade fail	
	Full image upgrade	
	Firmware upgrade manually	
Software	Enable / Disable Upgrade	
Upgrade	Firmware	
HTTP/FTP	Upgrade URL	
Auto	Version file	
Upgrade	Check new firmware every (hr.:	
	1~744)	
	Start Time	
	Random Time	
	Supports upload / download the	
	ACS specified file	
	Support download CPE	
	configuration file	
TR069	Support configure &queries parameters <sup>(1)</sup>	
	Support CDE version undete	
	Support CPE version update	
	Supports debugging operations	
	Support periodic monitor	
Port mirror	Can enable or disable the port mirror function	
	THITOI TUTICUOTI	
	Compare the explanation and	
syslog	Support the syslog function can send the log to the PC via LAN.	
	send the log to the PC via LAN.	
Diggnestics	Cupport the Ding and trace varie	
Diagnostics	Support the Ping and trace route	

(1) Can be customized

## **Bridge Mode**

Data traffic forward	Forward the data traffic between the LTE network and PCs.
Maximum 4 PCs support	Each PC connect to the LTE public network via one APN
Module can be managed	One APN can be allocation for the module and the module can be managed via TR069 such remote update version
Public IP allocation	PC get the public IP dynamic from the DHCP server in the CPE. The IP is public CPE get from LTE network.
Multiple APN	Up to 4 APNs support, and can set the static router for each APN

#### **Router Mode**

LAN	Can be set 2 IP addresses on the LAN and for 2 different Network.
WAN	Can be set dynamic or static.
Router protocol	Not support current
DNS	Can be set
Multiple	Up to 4 APNs support, and can set
APN	the static router for each APN

#### **NAT Mode**

NAT	Support NAT function	
Firewall	Can enable or disable the firewall	
Multiple	Up to 4 APNs support, and can set	
APN	the static router for each APN	
DMZ	The DMZ can be set.	
DHCP server	Support the DHCP server	
DNS	Support the auto DNS or manual DNS configuration	

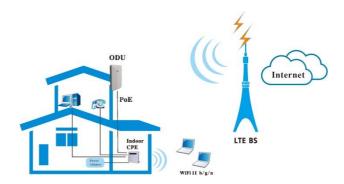
#### **WIFI Features**

Users can turn on/off WLAN function through two		
ways, one is touch the WLAN button, the second		
is Web UI.		
Support configuration WLAN functions through		
Web UI, include: SSID, SSID broadcasting turn		
on/off, AP Isolate function, Channel, rate and		
mode		
Support encryption: Un-encrypted, WEP-OPEN,		
WEP-SHARED, WPA-PSK (TKIP), WPA-PSK		
(AES), WPA2-PSK (TKIP), WPA2-PSK (AES)		
Support WPS: Support PBC mode		
WiFi protocol support: IEEE 802.11b/g/n/ac		
2.4GHz 5GHz		
WiFi support max. users: 32		
Support SSID broadcasting		
Support multi SSID		
Support WiFi channel self-adapt and select		
Support WDS		

#### **Firewall Features**

	Allow Ping from WAN	
Firewall Configuration	Allow HTTPs login from WAN	
	HTTPs Login Port from WAN	
	DMZ IP Address	
	Redirect ICMP to the Host	
Support the IP filter		
Support the MAC Filter		
Support the URL Filter		
Support UPnP		
Support the Port forwarding		

# **Application Diagram**



# **Appendix-Deliver**

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KA5312 Outdoor CPE	1 PCS
KA5113 Indoor CPE	1 PCS
Gigabit POE, Typical value 24V 1.0A	1 PCS
Accessories for pole mounting	1 PCS
Quick Start Manual	1 PCS

<sup>(1)</sup> Detail Delivers need to be defined by customer agreement