



AirSpot312

LTE Outdoor CPE

3GPP Release 10/11

CAT6

Band 42-43-48

PoE

IP67

AirSpot312 is a highly advanced LTE outdoor multi-service product solution specifically designed to meet integrated data needs for residential, business and enterprise users. The product supports advanced Gigabit networking functionalities. It enables wide service coverage and provides high data throughput and networking features to customers who needs easy broadband access.



Hardware

Spec	Description
LTE chip set	GCT GDM7243QT
LTE standard	3GPP Release 10/11 CAT 6
Flash	2Gb
DDR	1Gb
Power Supply	Gigabit POE, Typical value 24V/48V
Ethernet LAN Port/POE input	One Gigabit RJ45 PoE LAN Port 10/100/1000 auto-sensing, auto-MDI/MDIX
IP rating	IP67
LED	8 LED Indicators (PWR, SYS, NET, SIM, RF Signal*4)
USIM	Support 1.8V/3.0V 2FF USIM
RJ45	1 (Gigabit)
Reset	Button
Antenna	4 directional antenna
Dimensions	288mm x 288 mm x 88mm
Weight	ODU < 2Kg
Power Consumption	< 7W
Power adapter	AC 90~240V DC 48V/1.0A

Environment Specifications

Feature	Capability	
Temperature	Operating	-30°C ~ 55°C
	Storage	-40°C ~ 85°C
Humidity	Operating	10 ~ 90%
	Storage	5 ~ 95%

RF

Feature	Capability
Support Bands	42/43/48
CA	Inter/Intra 2CA
MIMO	DL 2*2, DL 4*4
Tx ⁽¹⁾	1 Tx, 2 Tx
Output Power@25°C	23±2 dBm
LTE Antenna	4 directional antenna
Antenna Gain	17 dBi

(1) Default 1 Tx supported.



Software Specifications

Language Settings: English

Support NAT/Bridge/Router mode

Support the http or https web server

Support two users (admin user and normal user) and different limitation and display

Throughput TDD DL 260Mbps UL50Mbps
FDD DL 300Mbps UL75Mbps
1000Mbit/s

LAN MDI/MDIX auto-sensing
IEEE802.3/802.3u/802.3ab is compatible

PIN Management, SIM card Authentication

Encryption backup current settings and restore the backup settings

Export current diagnosis results and operation logs

Statistics Link Status (LAN)
Transmit / receive traffic in packets
Up Time

Support multi-APN

Support VPN

ipv6/ipv4 dual stack

Status⁽²⁾ Signal strength
Network type
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

At B48 supports CBSD for SAS registration

Device Management

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



Bridge Mode

Data traffic forward Forward the data traffic between the forward 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 WAN IP can be set dynamic or static.

Router protocol Not support current

DNS Can be set

Multiple APN Up to 4 APNs support, and can set the static router for each APN

NAT Mode

NAT Support NAT function

Firewall Can enable or disable the firewall

DMZ The DMZ can be set.

DHCP server Support the DHCP server

DNS Support the auto DNS or manual DNS configuration

Firewall Features

Firewall Allow Ping from WAN
 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

Appendix-Delivers

AirSpot312 1 PCS

Outdoor CPE

PoE adapter 1 PCS

Accessories for pole mounting 1 PCS

Quick Start Manual 1 PCS

