User Manual for CW5100 CPE

Country Wireless, LLC

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User Manual for CW5100 CPE

1   Product Overview

1.1   Product Orientation

we are a high -tech company dedicated in wireless broadband access solutions and service operation. With the advent of the Internet+ era, the development of WBB is imminent. Through continuous innovation, we launch the world first mobile broadband system based on the Internet architecture and unlicensed spectrum. we can provide serious CPEs, include indoor and outdoor unit on different spectrums.

CW5100 is a high performance outdoor CPE. CW5100 has the superior wireless access performance and comprehensive routing capabilities, which have the abilities to bring the end-users WBB services.

1.2   Product Features

CW5100 is designed according to the simplicity principle, which can evolve in a short period and realize fast customization, delivery and deployment as well. The main features of CW5100 is as follows:

➢ Support TD-LTE network according to the operator's choice.

➢ LTE comply to 3GPP Release9 CAT4,

➢ LTE TDD 3650MHz-3700MHz

➢ Support the 100Mbps Ethernet WAN.

➢ Intuitionist and convenient Web-based management.

➢ Built-in LTE bipolar directional high gain antenna.

➢ Support TR069 and OMA-DM network management protocol.

➢ Support Cell lock. SIM lock.Pin lock

➢ User-friendly design of LED indicator.

➢ Power supply with PoE

➢ Support pole installation or wall mounting.

1.3   Product Description

CW5100 CPE product is shown in Table 1.

Table 1.   CW5100 Product description

Product	Description
CW5100	3.65G LTE Customer Premise Equipment

1.4   Product Appearance

1.4.1   Appearance Index

Table 2.   CW5100 Appearance index

Index	Description
Dimension	246mm * 135mm * 50mm
Weight	About 600g
Color	French grey

1.4.2   Appearance

Pic 1.   Appearance of CW5100

1.5   Interface and Button

Table 3.   CW5100 Interface and button

Connectors	Description
ETH RJ45	One LAN
USIM Slot	Support 1.8V/3.0V USIM
Restore Button	Long press over 10s to restore the factory settings

1.6 LED Indicators

Table 4.　LED Indicators

LED Name	Description	Color	LED Behavior	Status Indicator
PWR	Power Indicator	Green	OFF	No Power Supply
			Steady On	Power On
LTE Signal	3 LTEs, Indicate connection state and signal strength	Green	All OFF	No Connected
			ALL blanking	Connecting
			One LED Steady On	Connected, the signal is weak
			Two LED Steady On	Connected, the signal is medium
			Three LED Steady On	Connected, the signal is strong
LAN	Eth Indication	Green	OFF	Ethernet connection is not established
			Steady On	Ethernet connection is normal
			Blanking	Ethernet interface data being transmitted

2 Technical Specifications

2.1 Basic Specification

Table 5.　Basic Specification

Specification	Description
LTE Standard	3GPP Release 9
Ethernet LAN Port	One RJ-45 port 10/100 auto-sensing, auto-MDX, 24V PoE
LED Indicators	Power/LET Signal/LAN Indicator
USIM	Support 1.8V/3.3V 2FF USIM
Restore Button	Tact Button
Power Supply	Input: Universal range 100~240V AC Output: 12V 1A

2.2 RF Specifications

Table 6.　RF Specification

Feature	Capability	
	Value	Unit
Mode	TDD	
Channel Bandwidth	5/10/15/20	MHz
Max Output Power	17.34	dBm
LTE Standard	3GPP R9	
Frequency	3650 ~ 3700	MHz
Antenna Gain	12.5	dBi

2.3 Function Specification

2.3.1 SW Specification

Item	Description
Language Settings	English
Network Mode	Bridge / NAT / Router
SIM	PIN Management SIM Lock
Network Connection setup	1. Create, delete, and edit APNs 2. Set up dial-up connection automatically 3. Set up dial-up connection manual
LTE Scan Mode	1. Full Band 2. Cell Lock 3. Band / Frequency Preferred
VPN	1. Support VPN pass through 2. Support PPTP tunnel mode
NAT	1. Port forwarding 2. Port trigger 3. DMZ 4. UPnP
Statistics	1. LAN Link Status 2. Transmit / Receive traffic 3. Running Time

2.4 Device Management

Item	Description
Maintenance	1. Date & Time setting 2. Reset 3. Restore factory settings 4. Restore/Backup Configuration File 5. Local upgrade 6. FOTA upgrade
TR069	Can enable or disable TR069 Management
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

2.5 Environment Specification

Feature	Capability	
	Value	Unit
Operating Temperature	-40 ~ 55	℃
Storage Temperature	-40 ~ 70	℃
Operating Humidity	5 ~ 95	%
Drop	0.8	m
Protected Level	IP65	

3 Product List

Article Number	Content	Comments
CW5100	1*Assembled product 1*12V/1A PoE adapter 1*User Manual	Detail Delivers need to be defined by customer agreement

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 50 cm between the radiator & your body.

IC Compliance

This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 50 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter, End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance.

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