



AirMaster 4000D B12/17 LTE Outdoor CPE User Manual

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PLEASE READ THESE SAFETY PRECAUTIONS!

RF Energy Health Hazard



The radio equipment described in this guide uses radio frequency transmitters. Although the power level is low, the concentrated energy from a directional antenna may pose a health hazard. Do not allow people to come in close proximity to the front of the antenna while the transmitter is operating.

Protection from Lightning



Before connecting this instrument to the power line, make sure that the voltage of the power source matches the requirements of the instrument. The unit must be standards.

Disposal and Recycling Information



Pursuant to the WEEE EU Directive electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

Reduction of Hazardous Substances



This CPE is compliant with the EU Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation (Regulation No 1907/2006/EC of the European Parliament and of the Council) and the EU Restriction of Hazardous Substances (RoHS) Directive (Directive 2002/95/EC of the European Parliament and of the Council).

FCC Notice, USA

The Airstream CPE units 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.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

1. Overview

The AM4000D is a high performance 4G LTE outdoor CPE product designed to enable quick LTE fixed data service deployment to the remote customers. It provides high data throughput and networking features to end users who need both bandwidth and quality service in the remote area.

1.1. User Interface Specification



Model	Description & User Interface
	- Panel antenna: 5dBi
	- 1 RJ45 10/100M ETH Port
	- PWR, RUN, LAN, SIM, LTE (1-5) LEDs
AM4000D	- 48 VDC PoE supply, ODU Power <12 Watts
	- Dimensions: 203 mm (L) \times 203 mm (W) \times 161 mm (D)
	- Weight: < 1.6 Kg

1.2. LTE Interface Specification

Frequency Bands	Band 12/17
Radio Access	3GPP LTE Release9
Operation Mode	FDD, 2RX, 1TxD, DLMIMO
Output Power	23dBm at antenna port
Throughput	Category 4
SIM Support	SIM card slot (2FF)

2. Getting Started

2.1. Packing list and CPE Unit

Upon receiving the product, please unpack the product package carefully. Each product is shipped with the following items:

Table 2-1 Packing List

Outdoor CPE Products	Quantity
CPE Main Unit	1
PoE Power Adapter	1

Power Cord	1
Mounting brackets	1
PC Ethernet Cable	1

If you find any of the items missed, please contact your local distributor immediately.

CPE Packing List:

Please unpack the package and check the unit for the following items.



2.2. Installing the Equipment

Device logic connection

For outdoor CPE product, it is preferred that the CPE device be installed in a shaded area to avoid direct sun light exposure which may cause over heat in certain extreme weather condition. The CPE should be properly grounded for proper protection against lighting or power surge.

To power on the device, the outdoor CPE must use a 48V PoE integrated DC power supply adapter. The power adapters can operate in 100-250V AC range and therefore can be used in different country. Once the device is powered up, the user should wait for about 2 minutes before the device becomes operational. For CPE with the RUN LED indicator, the LED will stop fast flashing when the CPE completes the startup procedure.

To connect PC, LAN switch or other type of IP device to the CPE product, the user should use standard CAT5 Ethernet cable and connect to the appropriate LAN port. Once connect the CPE LAN LED indicator should come on.



Installing Outdoor Unit (ODU)

Mounting Bracket:



Header Connection:





3. RF Signal Adjusting

RF Signal Adjusting

After the CPE outdoor unit has installed, the direction of antenna's azimuth and pitch angle needs to adjust for the best signal strength. In near line of sight condition, the CPE will have the best signal when the antenna is directly pointing the base station.

User can adjust the holder to change the direction and angle of the antenna while observing the RF LED on the outdoor unit which indicates the signal strength.



Wireless Link Status

The user can further view more detailed wireless link through the WEB GUI interface under the device status link. The following wireless link information can be displayed.

Status Setup			🔀 Advanced 🛛 📴 Ex
LTE Information			
_ LTE Information			
Manufacturer		UL/DL Bandwidth	- / - KHz
Model Name	AirMaster 4000D	UL/DL Earfcn	-/-
Serial Number	K4000DFFDC4E	UL/DL Throughput	0 / 0 Mbps
IMEI	862344030090392	Media State	DISCONNECTED
RSRP	0 / 0 dBm	Connection Time	0 sec
SINR	0 dB	IPv4/IPv6 Address	- / -
_ Networking			
Device MAC Address	6C:AD:EF:FF:DC:4E		
IP Address	192.168.0.1		
Subnet Mask	255.255.255.0		
Local DNS			

LED Display

LED Indicator Function		Description	
PWR	Power Indicator	Green Color – Device is powered on	
RUN	System Run Indicator	Fast Blinking – Device is rebooting Solid Green – Device is in normal operation	
LAN	LAN port status	Solid Green – LAN port is up Blinking Green – LAN data activity in progress	
SIM	SIM Card Indicator	Light is on – SIM card state ready.	
RF(5LEDs)	RF Signal Strength	5 level signal strengths indication by 5 green LEDs 1 green LED: RSRP<= -118dBm 2 green LEDs: -118dBm <=RSRP< -105dBm 3 green LEDs: -105dBm<=RSRP< -95dBm 4 green LEDs: -95dBm<=RSRP< -85dBm 5 green LEDs: -85dBm<=RSRP	

4. Managing CPE Device

WEB GUI Login

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It is a preferred to setup the CPE using a Web browser from a local PC connected to CPE LAN port. The user should ensure that the connected PC acquired IP address via DHCP from the device. After IP connectivity is established between the PC and CPE device, the user may launch a Web browser and specify <u>http://10.1.1.1</u> in the address bar. A window will pop up requesting password. Input the user login password and then click the "Log in" button. After successful log on, the default home page of the WEB GUI interface will appear. Note that the default user password is "user123". The admin password is protected and only available to the network operator.

Please ente	er your login password	
Password		

Device Status

Once the user is logged in, the following window device status window will be prompted for viewing. It contains both the wireless link information, networking and device information configured for the device. For wireless info gives quite detailed information about the radio connection and user can use it to determine the receiving signal strength and transmit power of the device.

LTE Information Manufacturer ULDL Bandwidth -/- KH2 Model Name AirMaster 40000 ULDL Eartch -/- Serial Number K40000FFDC4E ULDL Throughput 0 / 0 Mbps INEI 85234403000392 Media State DiscONNECTED RSRP 0 / 0 dBm Connecton Time 0 sec SINR 0 dB IPv4/IPv6 Address - / - Networking				
LE Information -/- KH2 Manufacturer ULDL Earkin -/- KH2 Model Name Air/Master 4000D ULDL Earkin -/- Serial Number K40000FFDC4E ULDL Throughput 0 /0 Mbps INEI 86234403000302 Media State DisCONNECTED RSRP 0 /0 dBm Connection Time 0 sec SINR 0 dB IPv4/Pv6 Address - / - Device MAC Address 6C-AD EF FF DC.4E IPv4/Pv6 Address - / - Powice MAC Address 6C-AD EF FF DC.4E IPv4/Pv6 Address - / - Issue MAC Address 192 188.0.1 States States @ user C Ext Local DNS Local NS Ext Q user C Ext Ext Local P Address 192 188.0.1 States Q user C Ext Ext Local P Address 192 168.0 - - States	LTE Information			
Manufacturer ULDL Bandwidth -/-KH2 Model Name AirMaster 4000D ULDL Earton -/- Serial Number K4000DFFDC4E ULDL Throughput 0 /0 Mbps IMEI 862344030090392 Media State DISCONNECTED RSRP 0 /0 dBm Connecton Time 0 sec SINR 0 dB IP44IPv6 Address - / - Networking Device MAC Address 6C-AD EF FF DC-4E IP44IPv6 Address - / - IP Address 192.168.0.1 Subnet Maak 255.255.255.0 Image: Content of the device LAN Setup Image: Content of the device Image: Content of the device Image: Content of the device Device MAC Address 192.168.0.1 1 Image: Content of the device Subnet Mask 255.255.255.0 O Image: Content of the device Device IP Local DNS 0 0 O Image: Content of the device Subnet Mask 255.255.0 O Image: Content of the device Subnet Mask: Image: Content of the device Subnet Mask 255.255.0 O O O Image: Content of the device Subnet Mask 255.255.0 O O Image: Content of the device Subnet Mask: Local DNS <t< td=""><td> LTE Information</td><td></td><td></td><td></td></t<>	LTE Information			
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IMEI 86234403000392 Media State DISCONNECTED RSRP 0 / 0 dB Connection Time 0 sec SINR 0 dB IPV4/IPv6 Address - / - Networking Device MAC Address 6C:AD EF FFIDC:4E IP IP Address 192,168.0.1 Subnet Mask 255.255.0 Local DNS LAN Configuration Image: Configuration Image: Configuration LAN Setup Help Device IP Local IP Address 192, 168.0, 1 Local IP Address 192, 168.0, 1 Subnet Mask 255, 255, 255, 0 Local IP Address 192, 168.0, 1 Subnet Mask Subnet Mask Local IP Address 192, 168.0, 1 Subnet Mask Subnet Mask Local IP Address 192, 168.0, 1 Subnet Mask Subnet Mask Local IP Address 192, 168.0, 100 This is the subnet mask of the device. Network Address Server Settings (DHCP) DHCP Server: Addresses. DHCP Static Leases Map Maximum DHCP Users To0 Maximum DHCP Users 100 Maximum DHCP Users: 1 192, 168.0 100 Maximum DHCP Users: 1 192, 168.0 100 Configureses Map: Index 192, 168.0<	Serial Number	K4000DFFDC4E	UL/DL Throughput	0 / 0 Mbps
RSRP 0 / 0 dB Connection Time 0 sec SINR 0 dB IP-4/IPv6 Address - / - Networking Device MAC Address 6C:AD:EF:FFDC:4E IP IP Address 192:168.0.1 Student Mask 255:255:255.0 Local DNS LAN Configuration Image: Connection Time Image: Connection Time Image: Connection Time Status Network LAN VPN Security Applications Image: Connection Time Image: Connection Time <td>IMEI</td> <td>862344030090392</td> <td>Media State</td> <td>DISCONNECTED</td>	IMEI	862344030090392	Media State	DISCONNECTED
SINR 0 dB IPv4/IPv6 Address - / - Networking Device MAC Address 6C:AD:EF:FF.DC:4E IP Address 192.168.0.1 Subnet Mask 255.255.255.0 Local DNS Local DNS Lan Configuration Status Network LAN VPN Security Applications UPnP Maintenance Back user E Exit LAN Setup Ide 192 168 0 1 Local IP Address: This is the address of the device. Subnet Mask 255, 255, 255, 0 O O O O Device IP Local IP Address 192 168 0 1 Subnet Mask: Cocal IP Address: Local DNS 0 0 0 0 O Device IP Cocal IP Address Local DNS 0 0 0 0 O Device IP Cocal IP Address Local DNS 0 0 0 0 O Device IP Cocal IP Address DHCP Server @ Enable Disable Start IP Address 192.168.0 100 Addresses Start IP A	RSRP	0 / 0 dBm	Connection Time	0 sec
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Device MAC Address 6C:AD:EF:FF:DC:4E IP Address 192.168.0.1 Subnet Mask 255.255.255.0 Local DNS	Networking			
IP Address 192.168.0.1 Subnet Mask 255.255.255.0 Local DNS LAN Configuration Status Network LAN VPN Security Applications Device IP Local IP Address 192, 168, 0, 1 Subnet Mask 255, 255, 255, 0 Local IP Address 192, 168, 0, 1 Subnet Mask 255, 255, 255, 0 Local INS 0, 0, 0, 0 Network Address Server Settings (DHCP) DHCP Server Allows the device to manage your IP address 192.168.0, 100 Maximum DHCP Users 100 Maximum DHCP Users The address you would like to start with. Maximum DHCP Users: 1 192.168.0, 100 1 192.168.0, 100 Maximum DHCP Users You may limit the number of addresses you would like to start with. DHCP Static Leases Map Maximum DHCP Users: 1 192.168.0, 1 1 1 192.168.0, 1 1 1 192.168.0, 1 1 1 192.168	Device MAC Address	6C:AD:EF:FF:DC:4E		
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The LAN setting allows user to specify the DHCP server setting for the LAN devices including the pool address, IP and MAC binging and whether DHCP server should be enabled.

User is advised to leave the default setting unchanged for quick configuration and smooth device

operation.

Status Network LAN VPN Security Applications UPnP Maintenance	🏠 Back 🔱 user 🖪 Exit
Port Range Forwarding	Help
Forwards Application Start End Protocol IP Address Enable - None - Add Remove Add Remove Save & Apply Cancel Changes	Port Range Forwarding: Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the device will route the data to the computer you specify. Due to
Port Forwarding Forwards Annication Port from Protocol IP Address Port to Enable	¹ security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the Enable checkbox after you are finished.
- None -	Port Forwarding:
Save & Apply Cancel Changes	open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the
Port Triggering Forwards Triggered Port Range Application Start End Protocol Start End - None -	Internet, the device will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the Enable checkbox after you are finished.
Add Remove	Triggered Port Range: For each application, list the triggered
Save & Apply Cancel Changes	port number range. Check with the Internet application documentation for the port number(s) needed.
	Forwarded Port Range: For each application, list the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.

Applications Configuration

Port Range Forwarding:

Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the device will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the Enable checkbox after you are finished.

Port Forwarding:

Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the device will route the data to the computer you specify. Due to security

concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the Enable checkbox after you are finished.

UPnP Setting

niiveisai Piug anu Piag (UPIIP)	негр
Forwards Description From (WAN) To (LAN) IP Address Protocol Delete - None -	Forwards: Configure Port forwarding for UPni Click the delete to delete individua entry.
UPnP Configuration JPnP Service C Enable Disable JPnP Notification Interval 60 (30~600s)	Allows applications to automaticall setup port forwardings.

Forwards:

Configure Port forwarding for UPnP. Click the trash sign to delete individual entry.

UPnP Service:

Allows applications to automatically setup port forwarding.

Status Network LAN VF	PN Security Applications UPnP Maintenance	🏤 Back 👗 user 🔄 Ex
Firmware Management		Help
Local Firmware Upgrade		Local Firmware Upgrade:
After flashing, reset to		Click on the Browse button to select
Aiter nasning, reset to	Browse	the firmware file to be uploaded to th
Please select a file to upgrade	DIOWSE	device.
	Lingrade	Click the Upgrade button to begin the
	opgrade	upgrade process which must not be
Change Dassword		interrupted.
Change Password		Old Password:
Change Password		The password currently in use
Username	user	The password currently in use.
Old Password		New Password:
New Password		The new password length is 4 to 20
De entre la Orañan		characters, the characters of 0~9 or
Re-enter to Confirm		a~Z Enter the new password a
		second time to confirm it.
Language Management		Firmware Update Checking:
Language Selection		This will disable or enable the
Language	English 🗸	firmware update check during user
Languago		login. The user will be promoted
		option to perform device firmware
Update & Reset		upgrade if new version is available.
Update & Reset		Restore Factory Defaults:
Firmware Update Checking	Enable	This will restore the device to origina
Onders Deback Onlothing	Reboat	factory setting. User will need to
System Reboot	Newou	reconfigure the authentication setting
		in order to get the device operationa

Firmware Upgrade over HTTP:

Click on the Browser button to select the firmware file to be uploaded to the device.

Click the Upgrade button to begin the upgrade process. Upgrade must not be interrupted.

Old Password:

The password currently in use.

New Password:

The new password must not exceed 63 characters in length and must not include any spaces. Enter the new password a second time to confirm it.

Firmware Update Checking:

This will disable or enable the firmware update check during user login. The user will be promoted option to perform device firmware upgrade if new version is available.

Restore Factory Defaults:

This will restore the device to original factory setting. User will need to reconfigure the authentication setting in order to get the device operational.

System Reboot:

Click the Reboot button to restart the device.

5. Device Reset

In case the user forgets the login password, a reset password can be obtaining from the operator by given the device MAC address. The user can enter the reset password in the login window and a system reset will be performed and the unit will be rebooted. The user can then be allowed to use the original default login password to gain access to the unit WEB GUI again.

After factory reset, the device may need to be reconfigured by the user or even operator to gain network access. This is not a recommended operation and special care must be taken to ensure the device will be properly re-configured after factory reset.

6. FAQ and Troubleshooting

1) My PC cannot connect to the CPE.

- Re-plug the PC Ethernet cable and check if the PC LAN connection is up or showing activity.
- Check if the system run LED is on. If it is not, check the power cord and make sure it is connected properly. Also verify that the AC power supply is available.
- If the PC LAN shows no activity and system run LED is off but the power cord is connected properly and there is AC supply, then it is likely the adapter is damaged. Please contact distributor to obtain replacement part.

2) My PC cannot acquire IP from the CPE.

■ First check if the Network card is up and working properly. Then check the PC NIC

configuration and make sure the DHCP is enabled.

- To release and renew the correct IP address, please unplug the Ethernet cable from PC and wait for about 5 seconds, then connect it again.
- If the problem persists, please contact the operator or distributor for further diagnose.
- 3) My CPE networking is not working properly.
 - You may want to check if the LTE connection is up and running properly. You can do this by login the WEB GUI and check the LTE Interface Info page.
 - You may want to perform a factory reset and see if the problem is being corrected. You can do this by log into the WEB GUI perform restore the unit to default factory setting.
 - If the problem cannot be corrected by factory reset, please contact the operator or distributor for further diagnose.
- 4) I forget the login password and like to reset the unit to factory default.
 - Please contact the operator or distributor and give them the IMEI number of the unit. The operator or distributor can issue you a RESET password for you to enter in the WEB login window.
 - After the unit is reset to factory default, you can login using the default password.