



User Guide

Pepwave MAX Adapter:
MAX Adapter

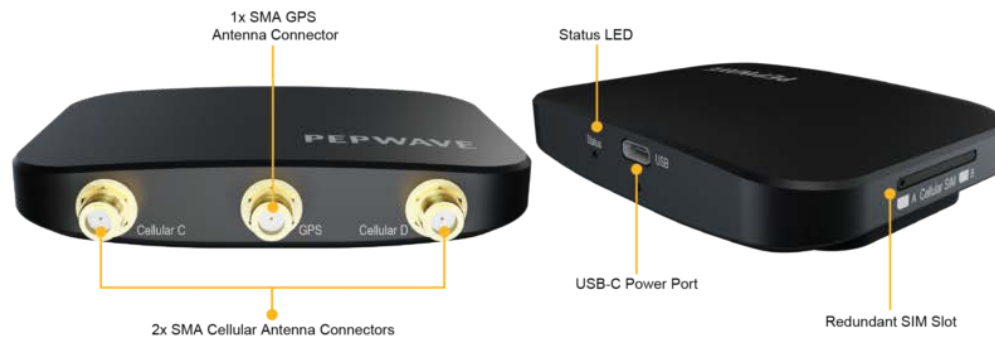
MAX Adapter: 2.0.0
December 2021

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Specifications

MAX Adapter

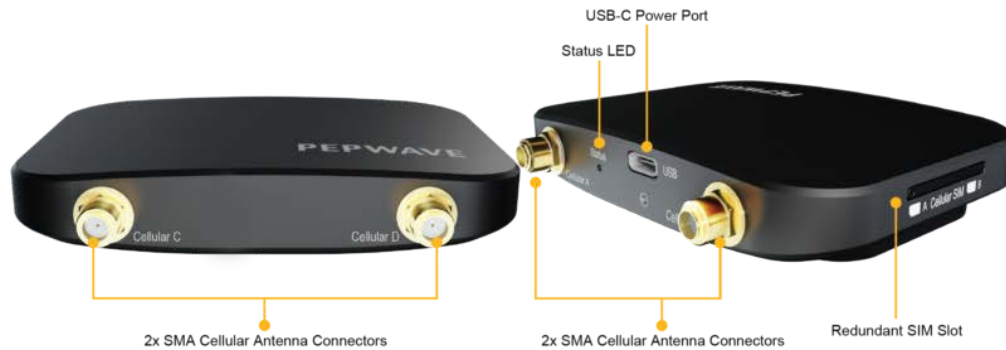


	MAX Adapter
Cellular WAN Interface	Single LTE Modem
Redundant SIM Slot	Yes
Downlink / Uplink Data Rate	CAT-12: 600Mbps / 150 Mbps CAT-6: 300Mbps / 50Mbps
Antenna Connectors	2x SMA Cellular, 1x SMA GPS
Power Input	5V USB-C
Power Consumption	5W (nominal), 8W (max.)
Dimensions	3.9 x 2.8 x 0.6 inches / 100 x 71 x 15 mm
Weight	120g
Operating Temperature	32° – 104°F / 0° – 40°C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year Limited Warranty
Certifications	FCC, CE, IC
Package Content	MAX Adapter, 2x 2dBi 4G LTE Antennas, USB-C power cable

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MAX Adapter 5G⁺



	MAX Adapter
Cellular WAN Interface	Single LTE Modem
Redundant SIM Slot	Yes
Downlink / Uplink Data Rate	5G: 4 Gbps / 700 Mbps LTE CAT-20: 2 Gbps / 150 Mbps
Antenna Connectors	4x SMA Cellular
Power Input	5V USB-C
Power Consumption	5W (nominal), 8W (max.)
Dimensions	3.9 x 2.8 x 0.6 inches / 100 x 71 x 15 mm
Weight	120g
Operating Temperature	32° – 104°F / 0° – 40°C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year Limited Warranty
Certifications	FCC, CE, IC
Package Content	MAX Adapter, 4x 2dBi 4G LTE Antennas, USB-C power cable

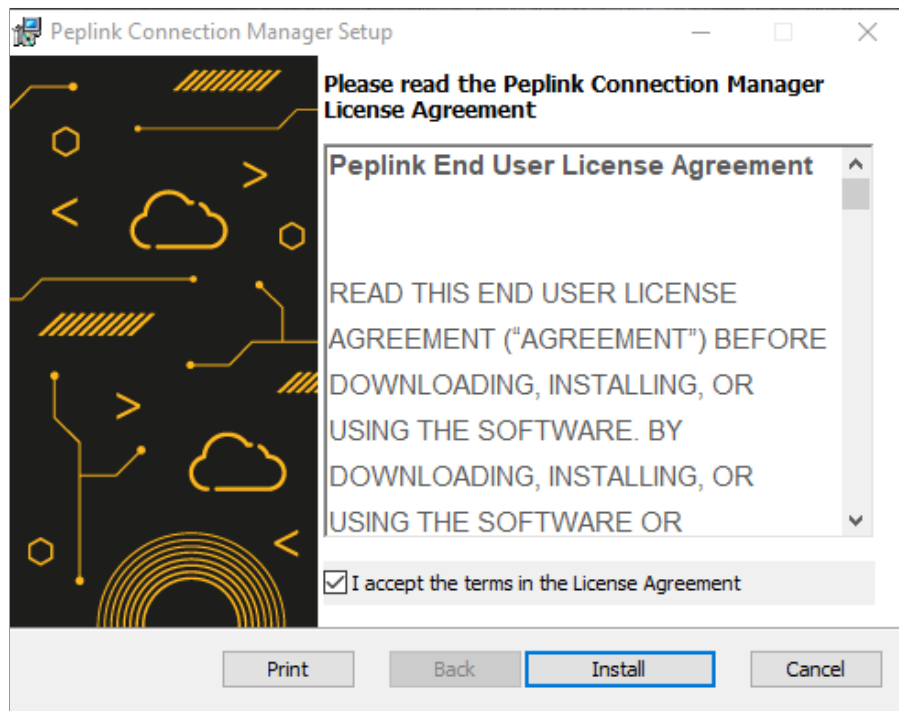
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Installation Procedures

1. Download the connection manager manually using the link below:
<https://www.peplink.com/support/downloads/#max-adapter> OR > [here](#) <

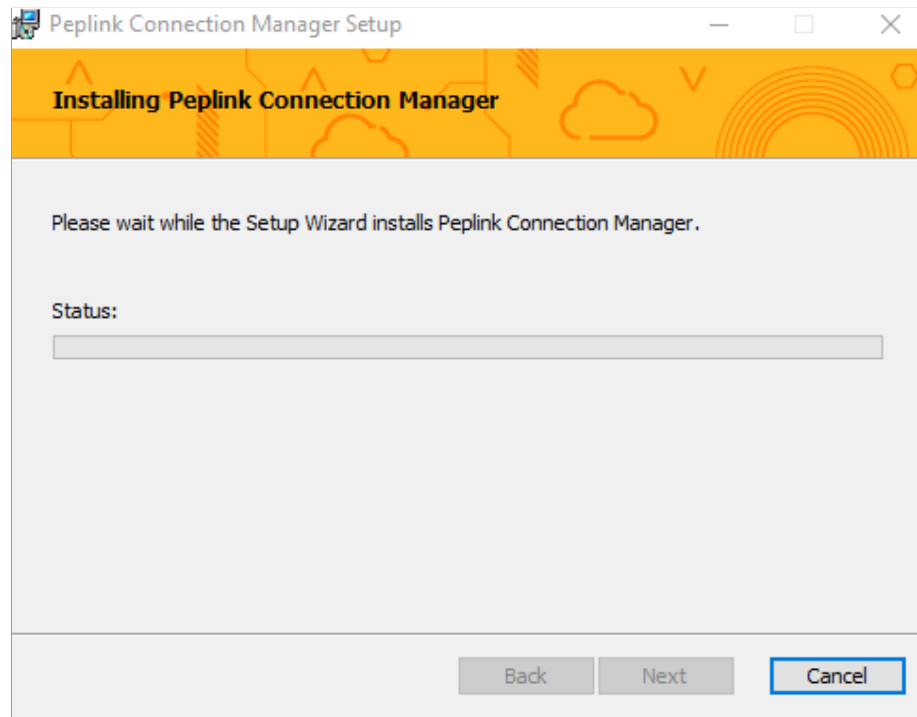
Peplink Connection Manager installation:



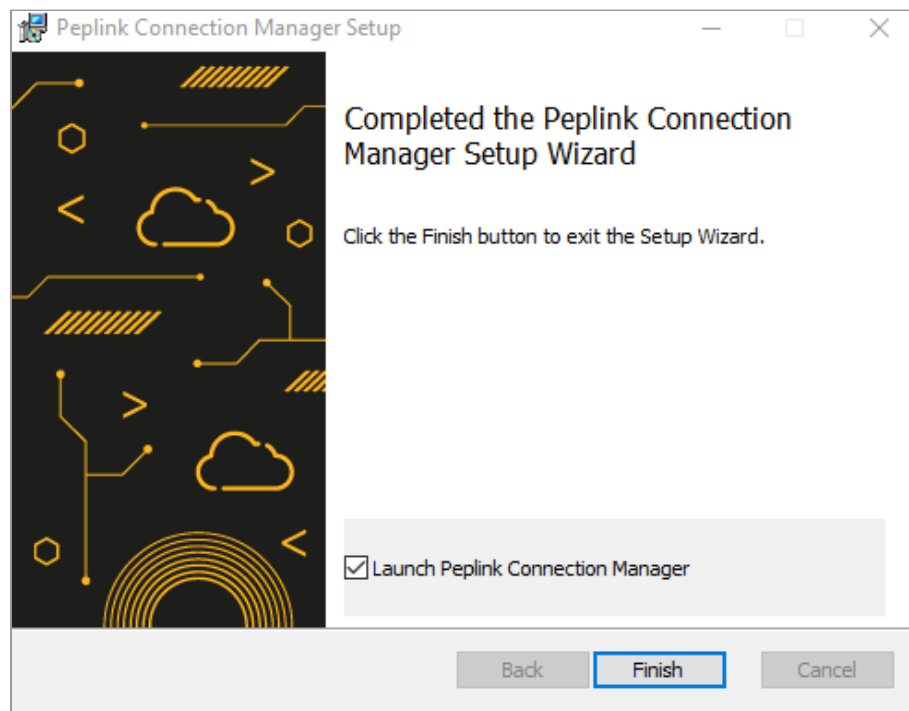
Tick the "I accept the terms in the License Agreement" before clicking the "Install" button.

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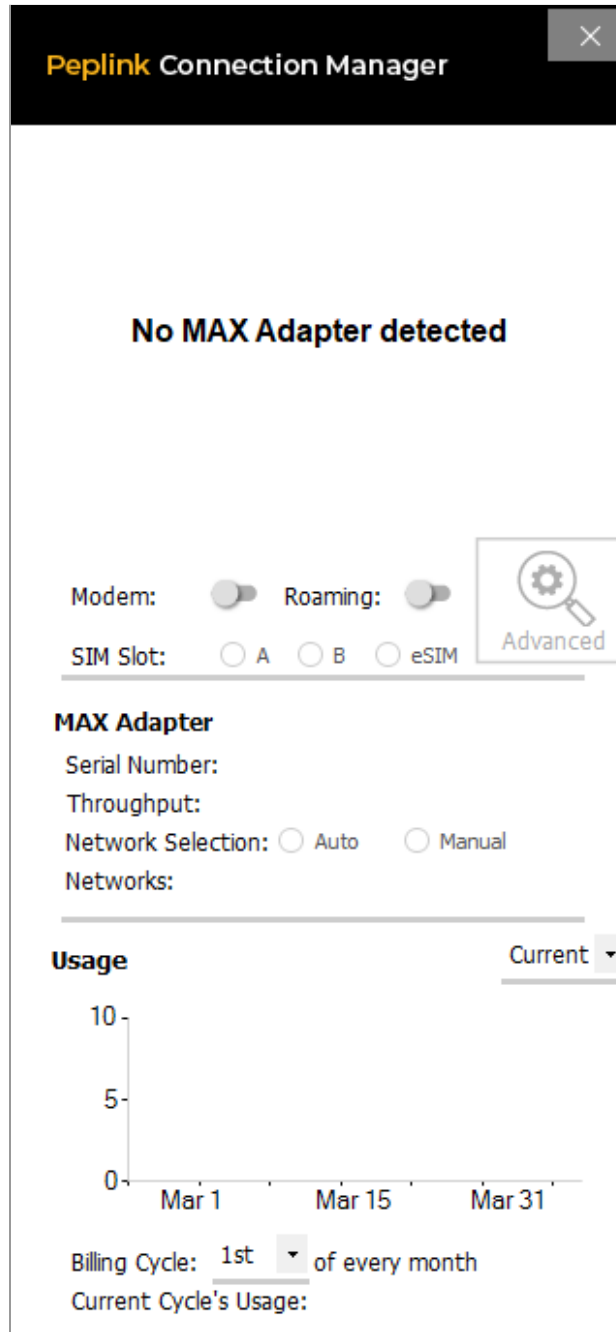
Wait for the installation to complete.



Tick "Launch Peplink Connection Manager" and click "Finish" after the installation is complete.

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This is the User Interface of the Peplink Connection Manager after launching the application.

2. Connect the USB-C power port to the laptop in order to power the MAX Adapter via USB-C cable.
3. Wait for the status LED to turn green and begin blinking.
4. You may manage the MAX Adapter settings via Peplink Connection Manager on the laptop.

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Peplink Connection Manager

The following screenshots are from the user interface of the Peplink Connection Manager after you have powered on the device with a SIM inserted for connectivity. You may choose which connection that you would like to use for the MAX Adapter with either a local SIM (which is SIM Slot A or SIM Slot B) or an eSIM for connectivity.

The section contains SIM status, general device information, throughput and usage (KB).

Peplink Connection Manager

LTE:

Modem: Roaming:

SIM Slot: A B eSIM

MAX Adapter

Serial Number:

Throughput: **224.05 Kbps**

Network Selection: Auto Manual

Networks:

Usage (MB) Current ▾

Billing Cycle: 1st ▾ of every month

Current Cycle's Usage: 17.47 MB

Peplink Connection Manager

LTE-A:

Modem: Roaming:

SIM Slot: A B eSIM

MAX Adapter

Serial Number:

Throughput: **195.44 Kbps**

Network Selection: Auto Manual

Networks:

Usage (MB) Current ▾

Billing Cycle: 1st ▾ of every month

Current Cycle's Usage: 27.11 MB

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You may configure the SIM settings, system settings, and view the device information by navigating to the “Advanced” button.

Peplink Connection Manager
✕

LTE:

Simple
←

Modem:
Throughput: **231.52 Kbps**

SIM

Settings

About

SIM Slot

Active: SIM A SIM B eSIM

IMSI:

ICCID:

More ▾

Usage (MB) Current ▾

Billing Cycle: 1st ▾ of every month
Current Cycle's Usage: 18.03 MB

Peplink Connection Manager
✕

LTE-A:

Simple
←

Modem:
Throughput: **29.75 Kbps**

SIM

Settings

About

SIM Slot

Active: SIM A SIM B eSIM

IMSI:

ICCID:

More ▾

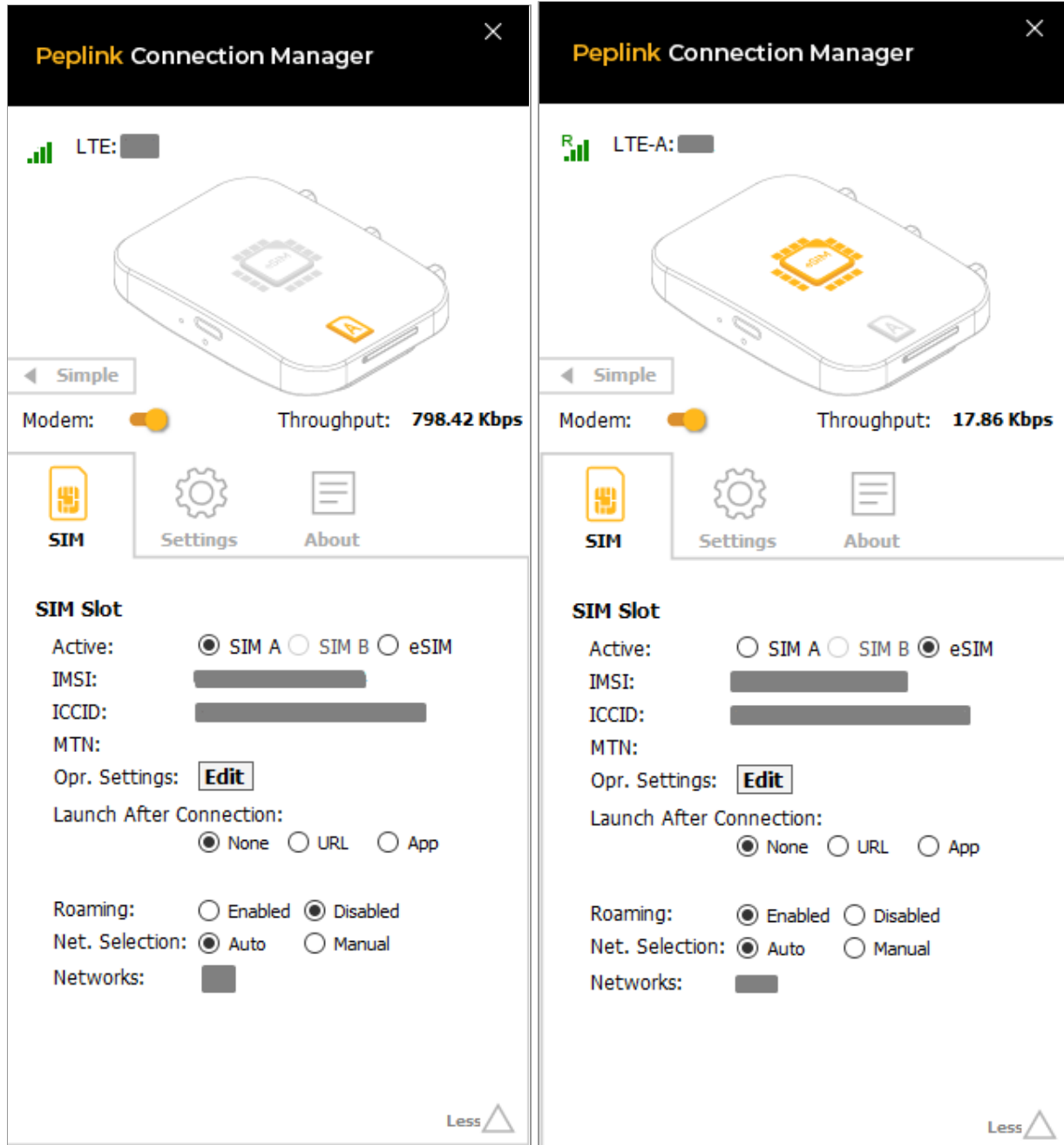
Usage (MB) Current ▾

Billing Cycle: 1st ▾ of every month
Current Cycle's Usage: 27.24 MB

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Click **"More"** to show more details about the SIM information such as "IMSI", "ICCID", "MTN", etc. You may click the **"Edit"** button under "Opr. Settings" to configure the APN settings of your connection.

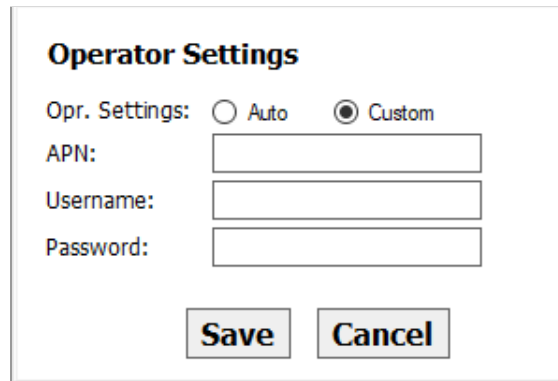


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This **Operator Setting** allows you to configure the APN settings of your connection. If **Auto** is selected, the mobile operator should be detected automatically. The connected device will be configured and the connection will be made automatically. If there is any difficulty in making a connection, you may select **Custom** to enter your carrier's APN, Username, and Password settings manually. The correct values can be obtained from your carrier.

The default and recommended setting is Auto.

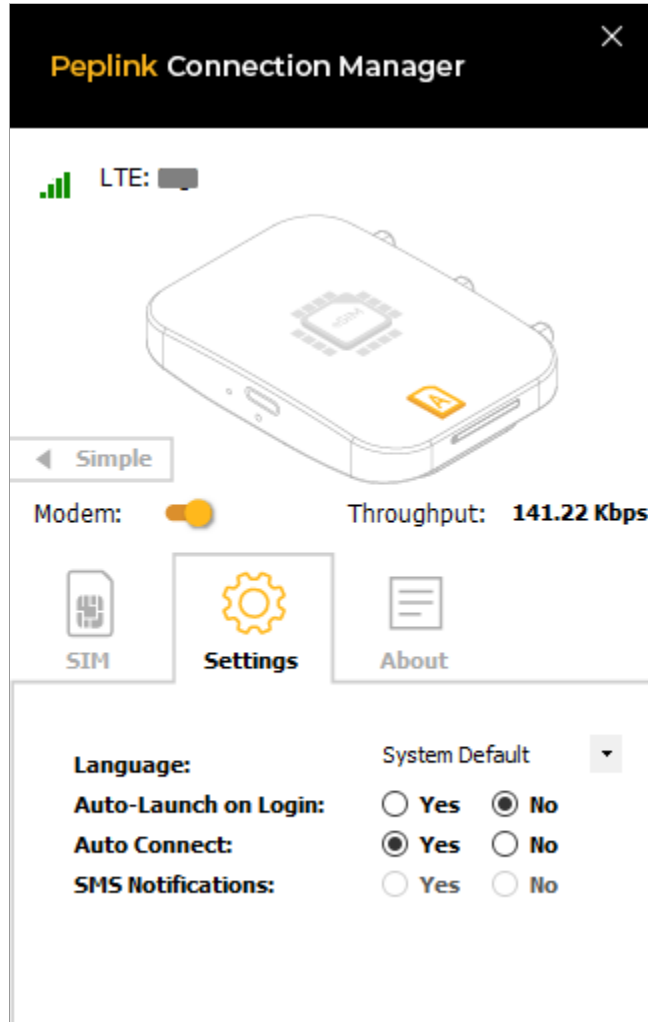


The image shows a dialog box titled "Operator Settings". It contains two radio buttons for "Opr. Settings": "Auto" (unselected) and "Custom" (selected). Below the radio buttons are three text input fields labeled "APN:", "Username:", and "Password:". At the bottom of the dialog are two buttons: "Save" and "Cancel".

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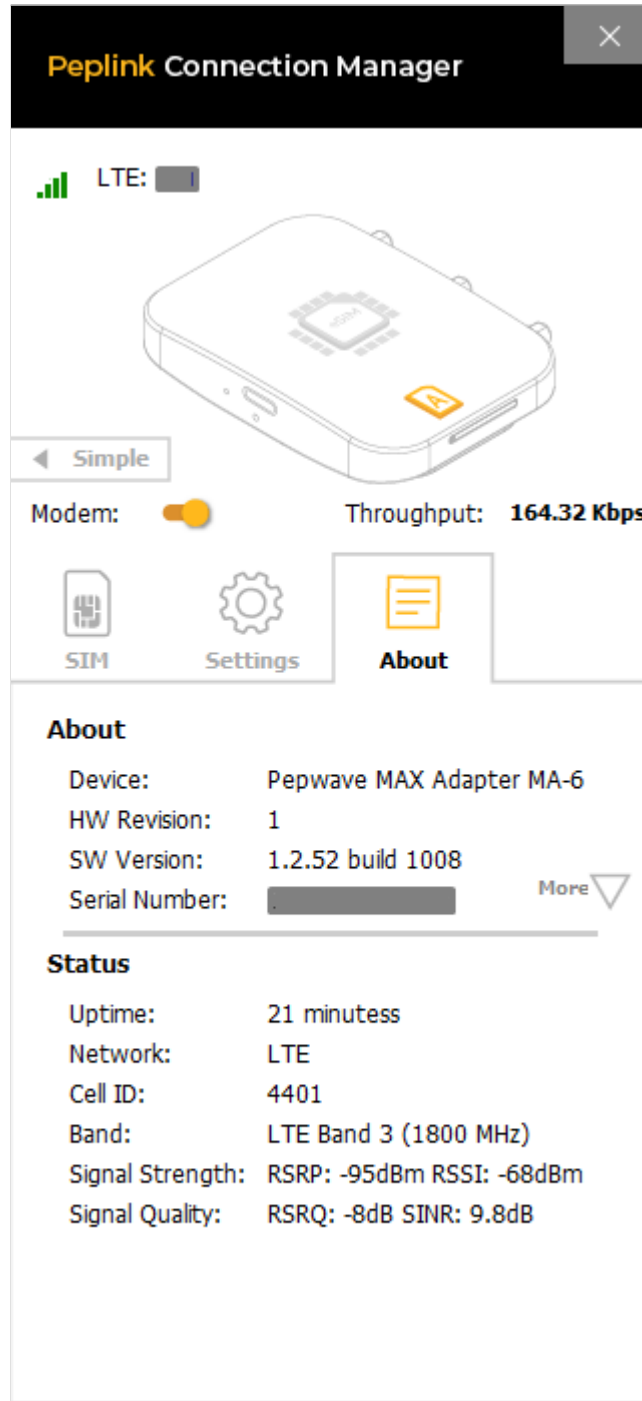
You may change the system settings such as “Language”, “Auto-Launch on Login”, “Auto Connect”, and “SMS Notifications” by navigating to the “**Settings**” tab.



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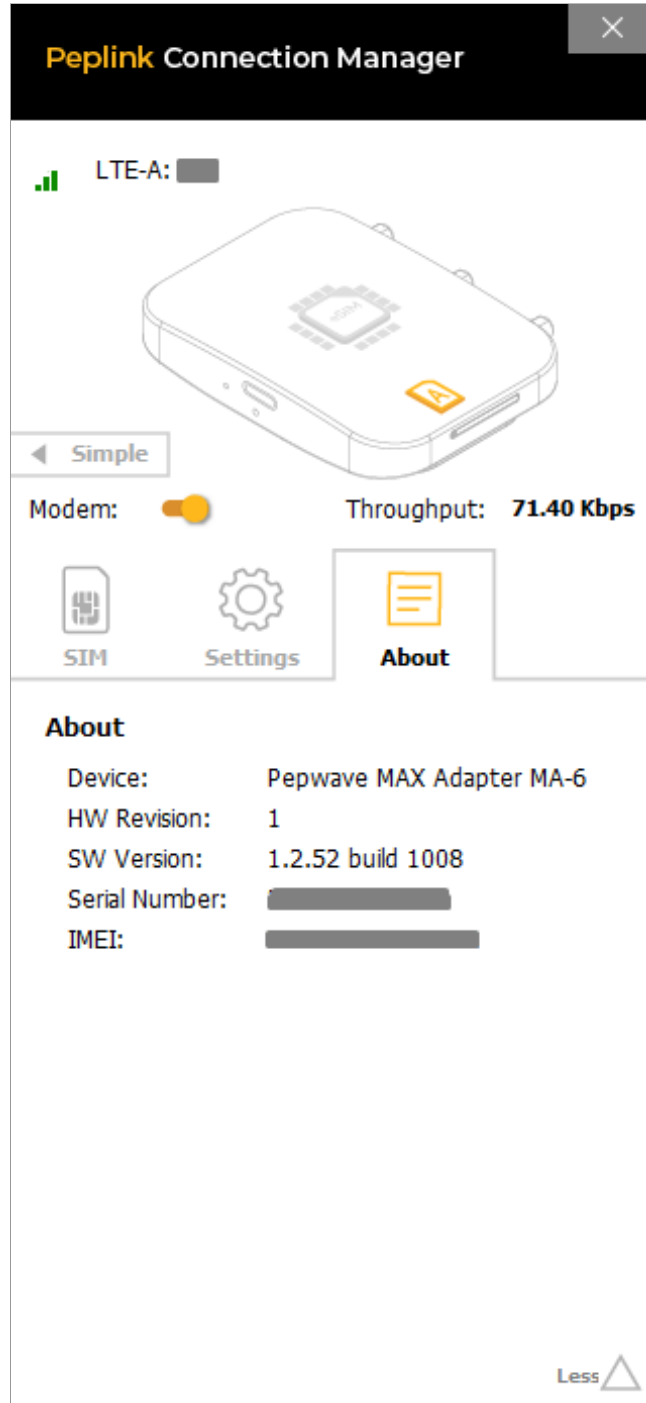
You may go to the **“About”** tab to view the device status and general device information such as “Serial Number”, “SW Version”, “Uptime”, “Signal Strength” and “Signal Quality”, etc.



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You may view more device information such as “HW Revision”, “SW Revision”, and “IMEI” by clicking on the “More” button.



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Setup on Linux Distributions

The following screenshots are from the user interface of the Linux distributions and describes the steps to setup the connection for the MAX Adapter on Ubuntu 20.04.1 TLS.

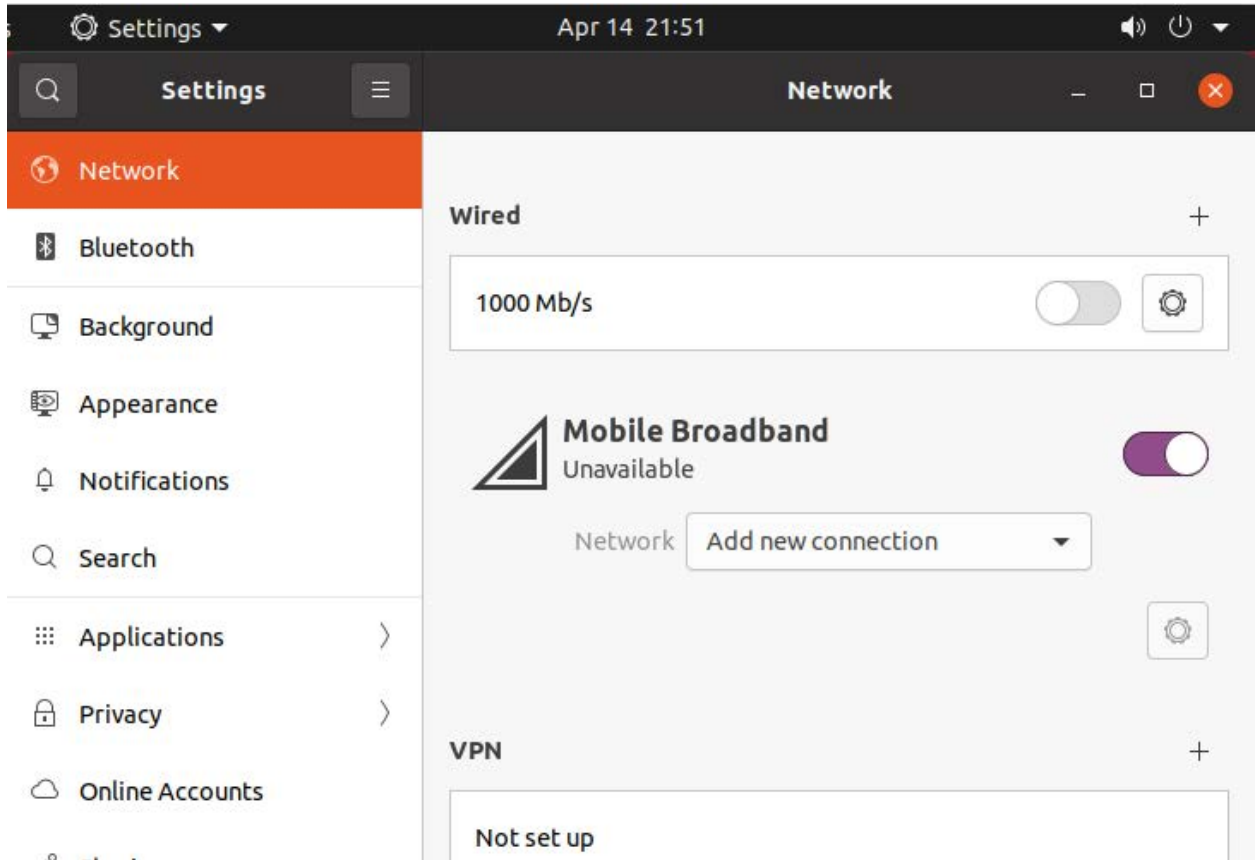
1. Download the Linux distributions software and install it.
2. Launch Ubuntu and connect the MAX Adapter via USB to your laptop.
3. When the MAX Adapter is connected, expand the “Mobile Broadband” dropdown menu by clicking on the right hand, and select the Mobile Broadband Settings. Alternatively, you may go to Settings.



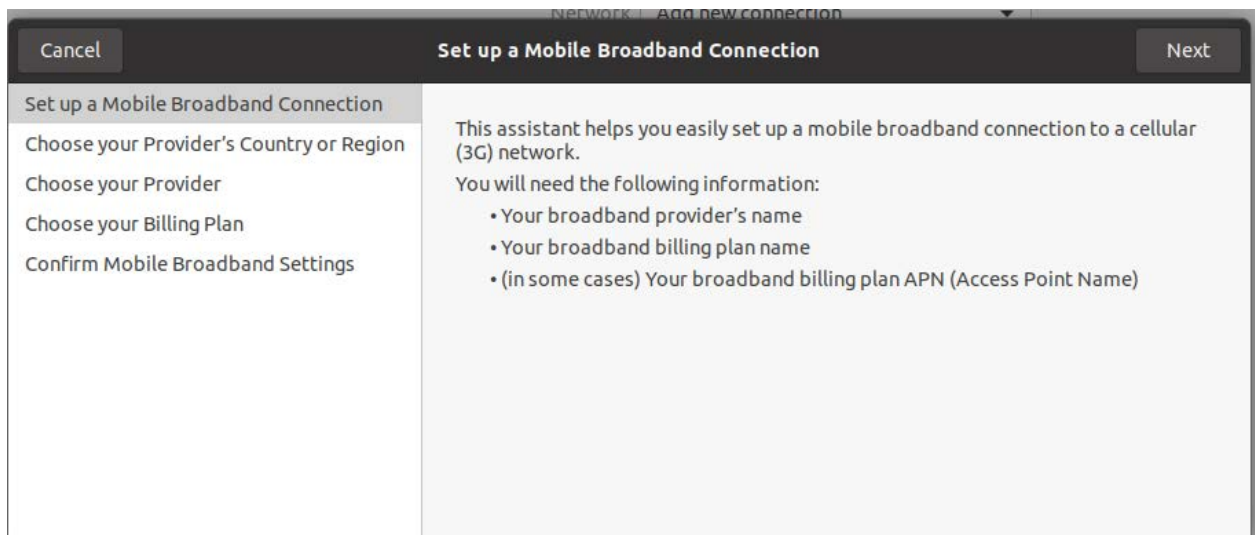
4. The page will navigate to the Network settings after clicking the Mobile Broadband Settings. You can select “Add new connection” from the dropdown menu to set up the mobile broadband connection profile.

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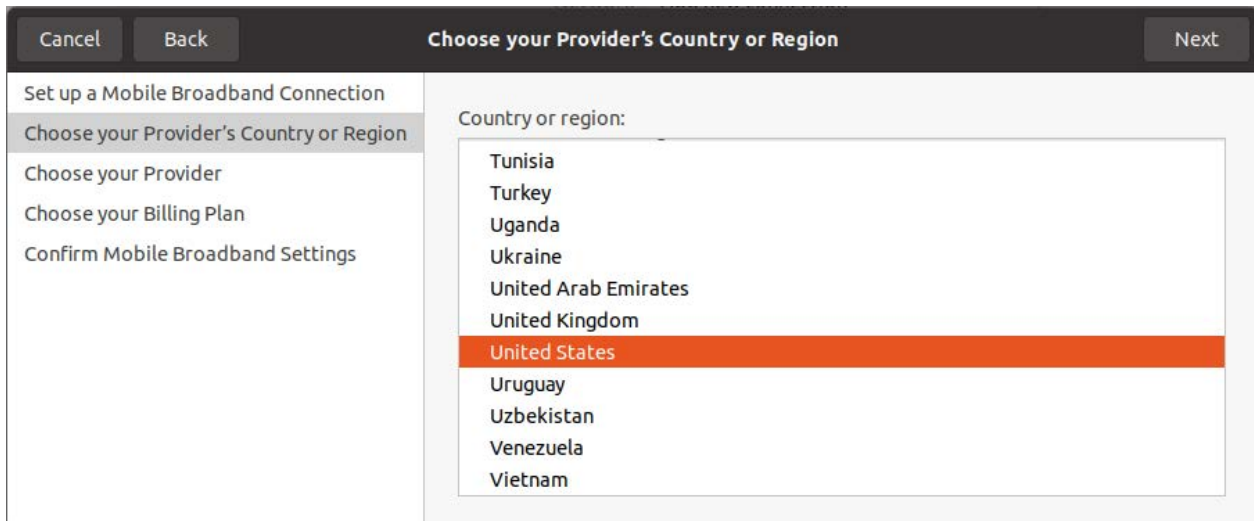
- After selecting “Add new connection”, the mobile broadband profile setup will pop out. Click “Next” to continue.



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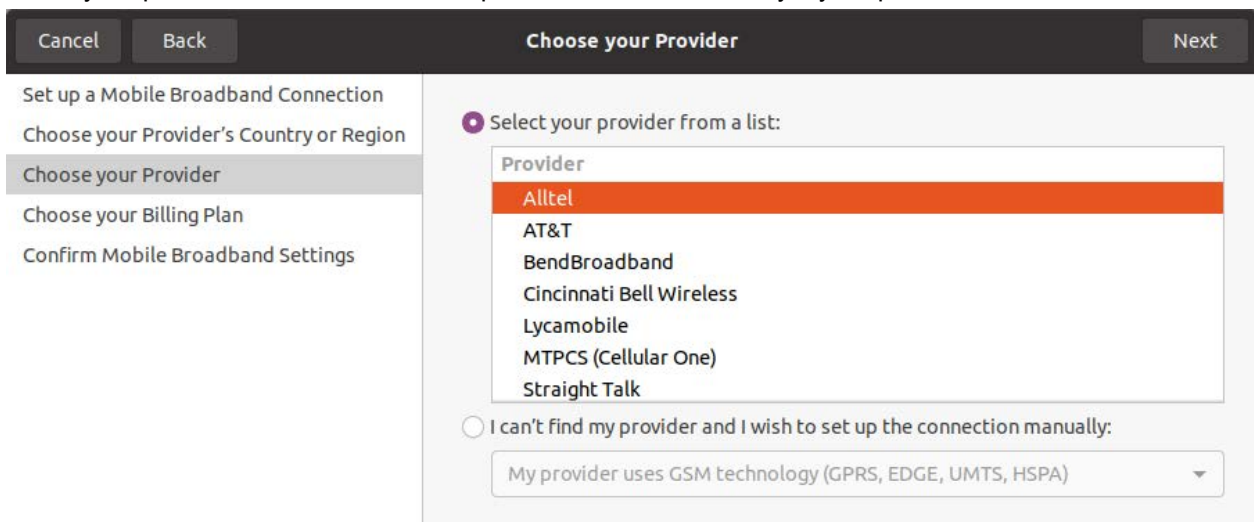
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6. Select the provider's country or region and then click Next.



The screenshot shows a wizard interface with a dark header bar containing 'Cancel', 'Back', 'Choose your Provider's Country or Region', and 'Next'. On the left, a vertical list of steps is shown, with 'Choose your Provider's Country or Region' highlighted. The main area is titled 'Country or region:' and contains a list of countries: Tunisia, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States (highlighted in orange), Uruguay, Uzbekistan, Venezuela, and Vietnam.

7. Select your provider from the list or set up the connection manually if your provider isn't listed.



The screenshot shows a wizard interface with a dark header bar containing 'Cancel', 'Back', 'Choose your Provider', and 'Next'. On the left, a vertical list of steps is shown, with 'Choose your Provider' highlighted. The main area is titled 'Select your provider from a list:' and contains a list of providers: Alltel (highlighted in orange), AT&T, BendBroadband, Cincinnati Bell Wireless, Lycamobile, MTPCS (Cellular One), and Straight Talk. Below the list, there is a radio button option 'I can't find my provider and I wish to set up the connection manually:' followed by a dropdown menu showing 'My provider uses GSM technology (GPRS, EDGE, UMTS, HSPA)'.

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Cancel
Back
Choose your Provider
Next

Set up a Mobile Broadband Connection

Choose your Provider's Country or Region

Choose your Provider

Choose your Billing Plan

Confirm Mobile Broadband Settings

Select your provider from a list:

Provider

Alltel

AT&T

BendBroadband

Cincinnati Bell Wireless

Lycamobile

MTPCS (Cellular One)

Straight Talk

I can't find my provider and I wish to set up the connection manually:

My provider uses GSM technology (GPRS, EDGE, UMTS, HSPA) ▼

8. Choose your data plan from the dropdown menu and it will auto-select the APN. Alternatively, you may customize the APN. The correct value can be obtained from your provider. Once completed, click Next.

Cancel
Back
Choose your Billing Plan
Next

Set up a Mobile Broadband Connection

Choose your Provider's Country or Region

Choose your Provider

Choose your Billing Plan

Confirm Mobile Broadband Settings

Select your plan:

LTE ▼

Selected plan APN (Access Point Name):

fast.t-mobile.com

Warning: Selecting an incorrect plan may result in billing issues for your broadband account or may prevent connectivity.

If you are unsure of your plan please ask your provider for your plan's APN.

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Cancel
Back
Choose your Billing Plan
Next

Set up a Mobile Broadband Connection

Choose your Provider's Country or Region

Choose your Provider


Choose your Billing Plan

Confirm Mobile Broadband Settings

Select your plan:

My plan is not listed...

Selected plan APN (Access Point Name):



Warning: Selecting an incorrect plan may result in billing issues for your broadband account or may prevent connectivity.

If you are unsure of your plan please ask your provider for your plan's APN.

9. Once setup is complete, confirm that the mobile broadband settings are correct before clicking "Apply".

Cancel
Back
Confirm Mobile Broadband Settings
Apply

Set up a Mobile Broadband Connection

Choose your Provider's Country or Region

Choose your Provider

Choose your Billing Plan

Confirm Mobile Broadband Settings

Your mobile broadband connection is configured with the following settings:

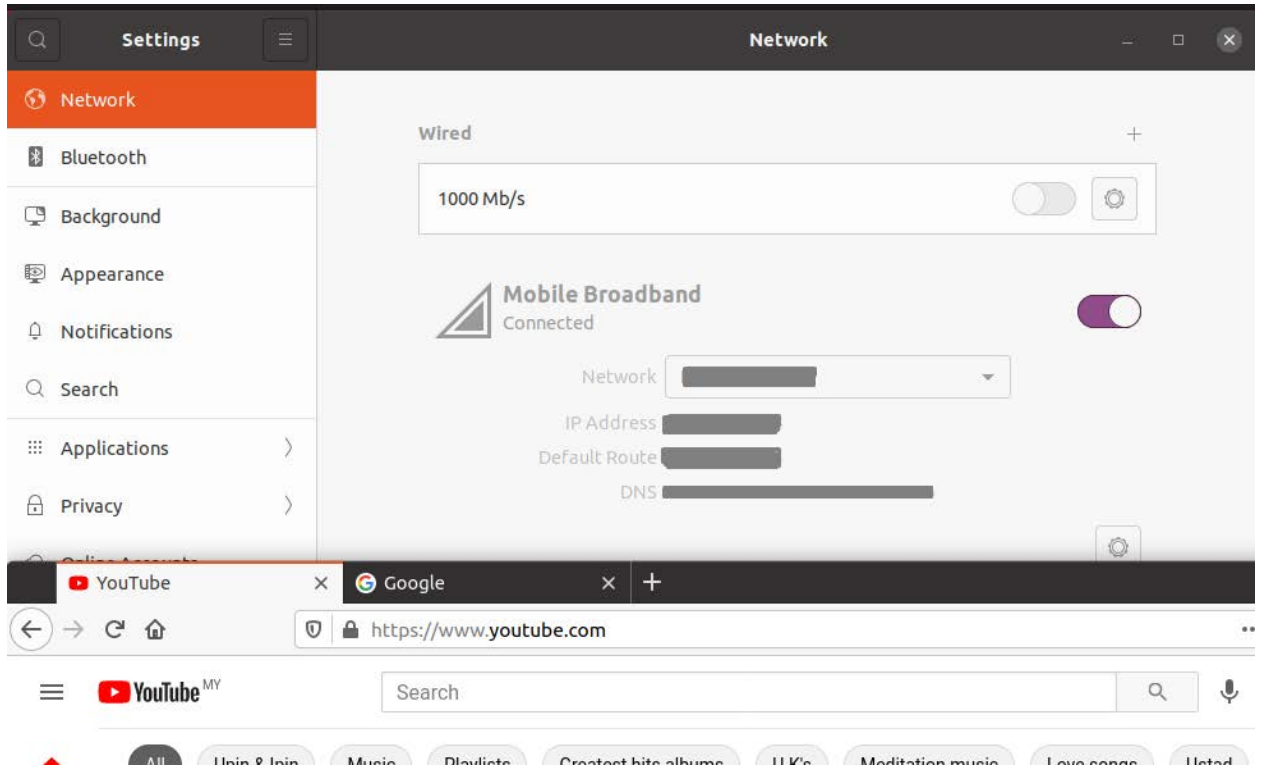
Your Provider:
T-Mobile, United States

Your Plan:
LTE
APN: fast.t-mobile.com

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10. After clicking “Apply”, the mobile broadband will connect to the Internet using the MAX Adapter and you can start browsing the Internet.



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FCC Requirements for Operation in the United States Federal Communications Commission (FCC) Compliance Notice:

Federal Communication Commission Interference Statement

Any change or modification 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 distance between the equipment and the 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.

Radiation Exposure Statement

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

Industry Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en

Radiation Exposure Statement

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

Cet équipement est conforme avec l'exposition aux radiations ISED définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimum de 20 cm entre le radiateur et votre corps.

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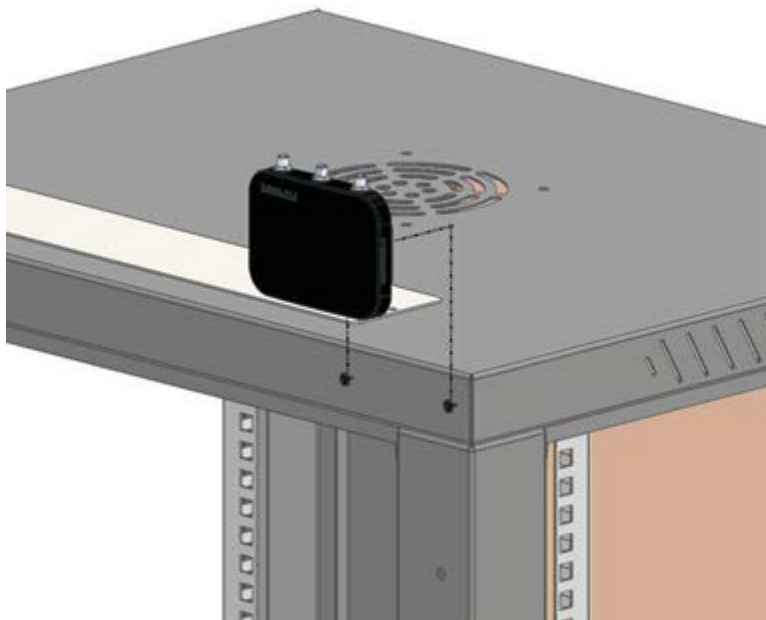
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Mounting the Unit

Wall Mount

The MAX Adapter can mount on the wall with screws. After adding the screw on the wall, MAX Adapter's bottom hole slide to the screws as indicated below. Recommended screw specification M3.5 x 20mm, head diameter 6mm, head thickness 2.4mm.

The MAX Adapter requires two screws for wall mounting.



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CE Statement for Pepwave Routers (MAX Adapter 5G For EM9191)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Industrial. Building., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	PEPWAVE / PEPLINK Wireless Product
Model name of the appliance	MAX Adapter 5G MAX-ADP-5GH-T
Trade name of the appliance	PEPWAVE / PEPLINK

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The construction of the appliance is in accordance with the following standards:

EN 301 908-1 V13.1.1
EN 62311: 2020
EN 301 489-1 V2.2.3
Draft EN 301 489-52 V1.1.2
EN 55032: 2015 / A11:2020
EN 55035: 2017 / A11:2020
EN 61000-3-2: 2014
EN 61000-3-3: 2013 / A1:2019
EN 62368-1:2020 + A11:2020

Yours sincerely,



Antony Chong
Director of Hardware Engineering
Peplink International Limited

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AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

WWAN : Refer 3GPP TS 36.521 -1 (UE Power class)

Table 4-11: Conducted Maximum Tx (Transmit) Power^a Tolerances

Bands	Conducted Tx Power	Notes
5G		
FR1 Sub-6G Bands	+23 dBm ± 1.5 dB	Power Class 3
LTE		
LTE B7, B38	+23 dBm +1.8 dB/-1.0 dB	Power Class 3
LTE all other bands	+23 dBm ± 1 dB	Power Class 3
UMTS		
All bands (12.2 kbps)	+23.5 dBm ± 1 dB	Connectorized (Power Class 3)

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

contact as: <https://www.peplink.com/>

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