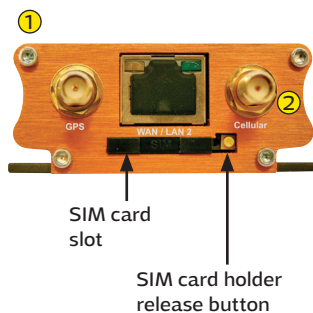


Ouman 3G-MOD3 is a 3G modem which can be used to create a mobile network in premises where such a network does not readily exist. Connection requires a SIM card with data connectivity (preferably with unrestricted data roaming. PIN code query must be disabled). The product package includes a 3G modem, power source and an antenna. SIM card with data connectivity can be acquired from Ouman (3G-L1 or 3G-L2) or your own operator.

In addition, Ouman Access service and an Ouman Access compatible terminal such as Oulink, Ouflex A or external Access device, are needed to establish a secure connection from the Internet to automation devices. For more information about the Ouman Access service, please visit our website at www.ouman.fi/dokumenttipankki

Installation and start-up:



3G-MOD3 is delivered with the Ouman connection settings installed. If using the Ouman 3G-L1 or 3G-L2 connection, default settings can remain as set. If some other operator's SIM card is used, connection settings may need to be changed. For the correct data traffic settings, please contact your own service provider. To change connection settings, see the instructions on p. 2-4.

- ① Insert SIM card into the 3G-MOD3 device (see attached picture). The card must be a mini-SIM (25 mm x 15 mm). Press the release button with e.g. the tip of a pen.
- ② Connect the external antenna to 3G-MOD3's 3G Antenna connector. Avoid placing the antenna close to thick stone walls. In demanding conditions, place the antenna as high as possible or next to a window.
- ③ With an RJ-45 cable, connect LAN1 port of the 3G-MOD3 to Access-compatible device's internet / WAN connector. The cable must be CAT-5E or more.
- ④ Plug in the power cords to both devices (power on). The system is now ready for use. When connecting your computer to 3G-MOD3, make sure the computer is adequately secured.

Modem signal lights:

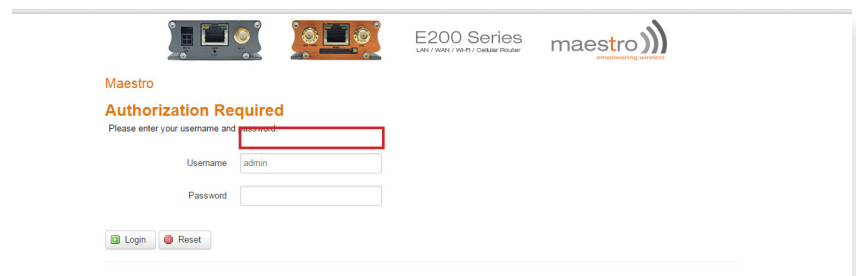
Indicator light	Indicator light status	Functional description
	Red on	Hardware failure (Note! When the modem is connected to power, indicator light comes on for a moment and then goes off. This is totally normal.)
	Red blinking	Software error
Power	Green on	Modem connected to power
	No light	Modem not connected to power
Signal	Yellow light on	Radio network connection OK
	Yellow light blinking	Radio network connection weak
	No light	No connection to radio network
Network	Yellow light on	SIM card in place
	Yellow light blinking	Device has registered to radio network
	No light	No SIM card in place
Activity	Yellow light on	Mobile data service connected
	Yellow light blinking	Network sends and receives mobile data
	No light	Mobile data service not activated
Wi-Fi	Blue light on	Wi-Fi network activated
	Blue light blinking	Wi-Fi sends and receives data
	No light	Wi-Fi not activated

Changing connection settings:

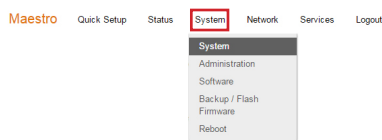
If you have acquired an Ouman 3G connection, the modem is directly ready for use (Sonera, Elisa and DNA mobile subscriptions). If you are using another operator's subscription, APN address may need to be changed. In factory configuration, modem's APN is "internet". Check your own operator's APN address and change if necessary (see section 4 of the manual).

Other modem settings can normally stay as they are. If factory settings are for some reason lost, they can be re-stored following the instructions below.

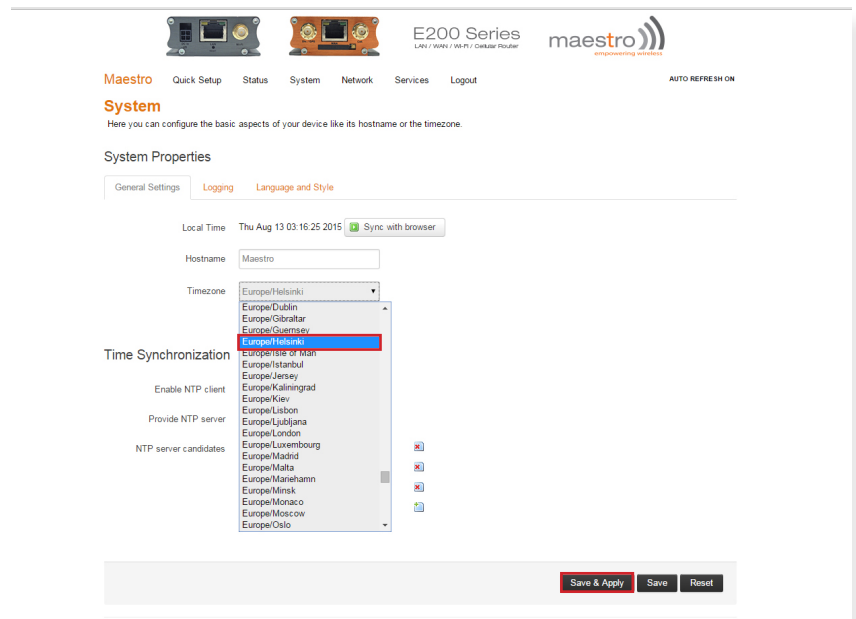
1. To reset the modem to factory settings, press the RESET button at the end of the device with, for example, a partially opened paper clip. The modem must be turned on.
2. DHCP on your computer must be enabled. If you have connected 3G-MOD3 to your computer using an RJ-45 cable, open your browser and go to address **192.168.1.1**. The 3G-MOD3 management page opens. Type **admin** in the Username field, then **admin** in the Password field, and click "log in".



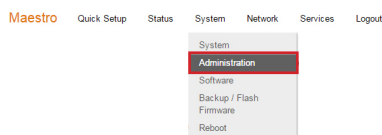
3. In the top menu bar, select System → System



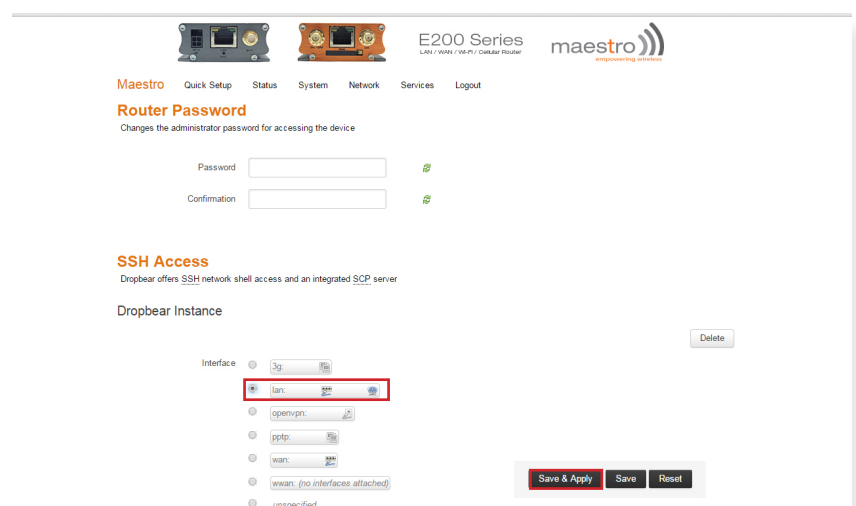
On System tab, change Timezone to Europe/Helsinki. Save by clicking **Save & Apply**.



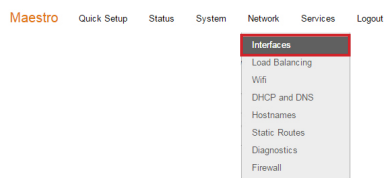
4. Go to System → Administration



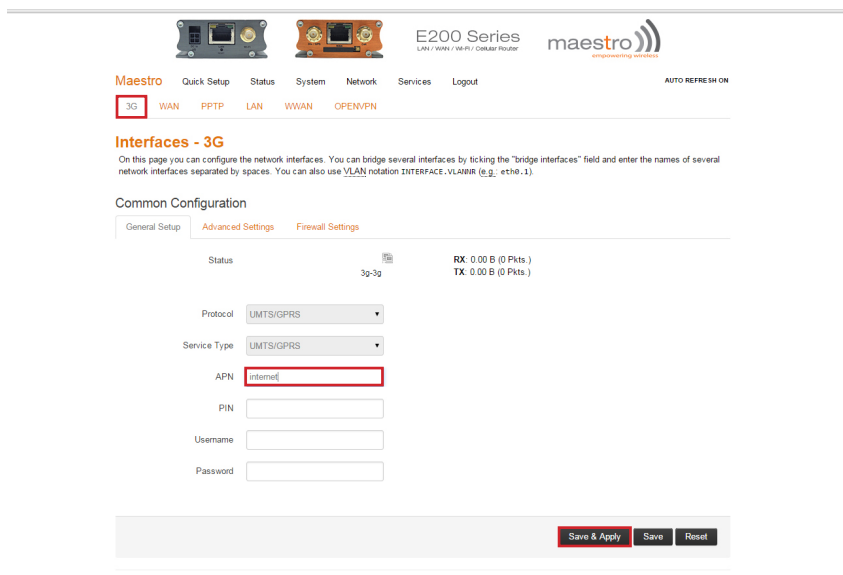
Under **Dropbear Instance**, change Interface to "lan". Scroll down to the bottom of the page and save by clicking **Save & Apply**.



5. Next go to Network → Interfaces.

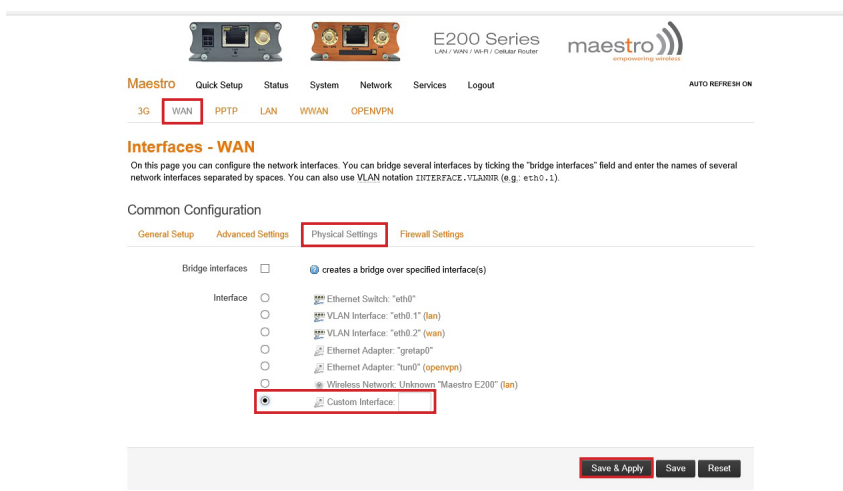


Select 3G tab, tap on the APN field, and enter **"internet"**. If your operator uses a different address, type it in this field. Save by clicking **Save & Apply**.



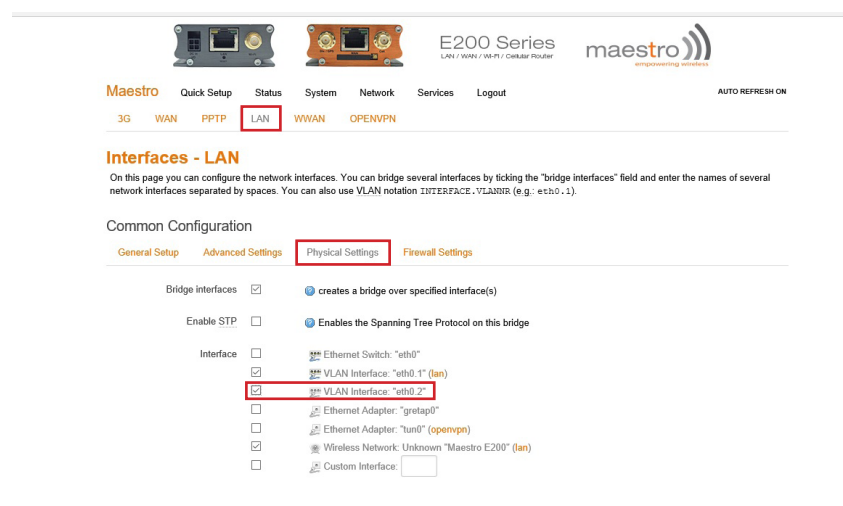
6. Select WAN tab and then **Physical Settings**.

Under Interfaces selection click **Custom Interface** and leave the name field blank. Save by clicking **Save & Apply**. A warning will appear on the screen, but you can ignore it.

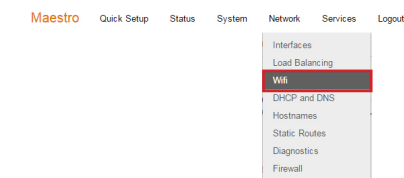


7. Select LAN tab and then **Physical Settings**.

Select Interfaces and activate **VLAN Interface: "eth0.2"**. Also VLAN Interface: "eth0.1" and Wireless Network must be active. Save by clicking **Save & Apply**.



8. Go to Network → Wifi.



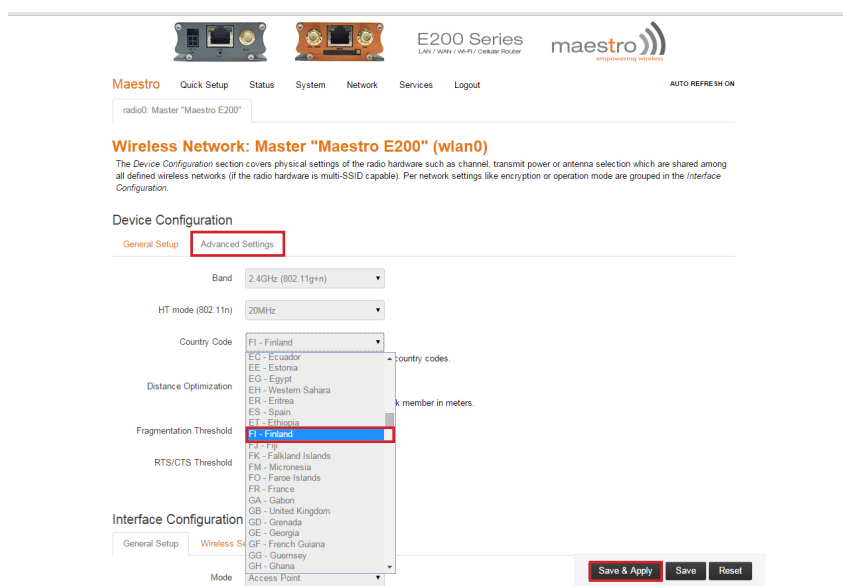
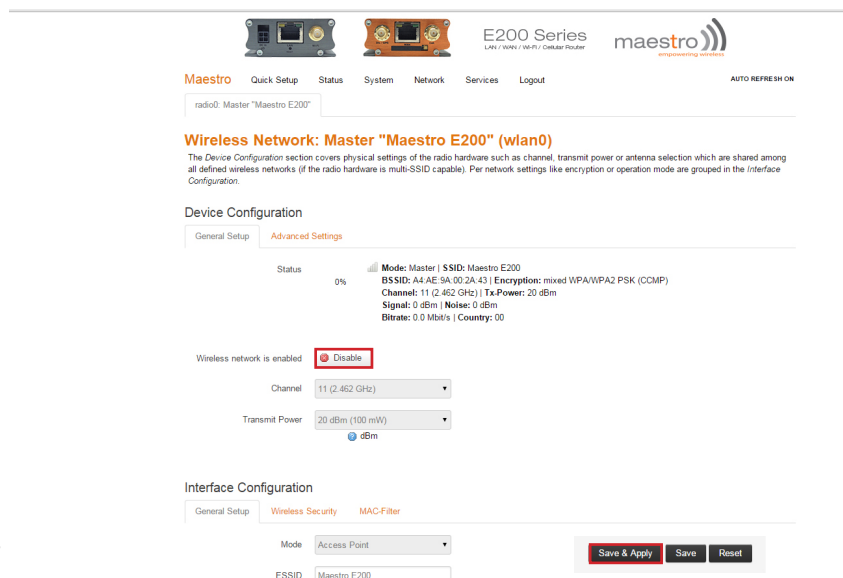
Select Edit



In the window that appears, go to wireless network status and click **"Disable"**. Save by clicking **Save & Apply**.

9. Select **Advanced Settings** tab. Under Country Code, click FI-Finland. Save by clicking **Save & Apply**.

10. To finish, click **"Logout"**.



To activate Wi-Fi connection, under item 8, change wireless network status to **"Enable"**. Save by clicking **Save & Apply**. If Wi-Fi is enabled, we recommend changing the name of the Wi-Fi network and the password. Name of the network is entered under **General Setup** in ESSID field. The default value is Maestro E200. To change the password, go to **Wireless Security**, tap on Key and enter the new password. Save by clicking **Save & Apply**.

Operators' APN addresses (see p. 3, phase 4)

Operator	APN
DNA	internet
Elisa	internet
Saunalahti	internet.saunalahti
Saunalahti Prepaid	internet
Sonera	internet
Tele Finland	internet
Welho	internet.welho.fi

NOTE! Operators' connection settings may have changed after the printing of these instructions. If the connection does not work with the APN settings given, check the valid settings from your own operator.