

# **E210 Series Cellular Router User Guide**

**Part Number PMD-00017  
Revision A October 2019**

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## Revision History

| Date       | Rev. | Comments   |
|------------|------|--|
| Sep., 2017 | 1.0  | First release  |
| Oct., 2017 | 1.1  | RAM size and model list  |
| Nov., 2017 | 1.2  | Compatible models  |
| Jun., 2018 | 1.3  | Compatible models  |
| Apr., 2019 | 1.4  | Power consumption, Accessories and LED Status Indicator.   |
| July 2019  | A    | Initial Lantronix document.<br>Added Lantronix document part number, Lantronix logo, branding, contact information, and links. |

For the latest revision of this product document, please check our online documentation at [www.lantronix.com/support/documentation](http://www.lantronix.com/support/documentation).

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# 1 Safety Precautions

## 1.1 General precautions

The router generates radio frequency (RF) power. When using the router, care must be taken to ensure safety as well as compliance with all the regulations that surround the use of RF equipment.

Do not use the router in aircraft, hospitals and petrol stations or in places where using GSM, W-CDMA and LTE equipment or any other RF equipment is prohibited, and make sure that the router is not interfering with nearby equipment such as pacemakers or medical equipment.

All antennae of the router should be directed away from computers, office equipment, home appliances, etc., and always keep the router at a minimally safe distance of 26.6cm or more from human bodies.

Do not put the antenna inside metallic boxes or other containers.

## 1.2 Using the router in vehicles

Check for regulations/law, if any, for authorising the use of GSM, W-CDMA and LTE equipment in vehicles in your country before installing the router.

Installation of the router should be done by qualified personnel. Consult your vehicle dealer for any possible interference concerns to the use of the router.

Battery of the vehicle could be drained after an extended period when the router is powered by the vehicles main battery.

## 1.3 Protecting your router

Please install and operate the router with care, and complying the following;

Do not expose the router in extreme conditions such as high humidity/rain, high temperature, direct sunlight, caustic/harsh chemicals, dust, or water.

Do not try to disassemble or modify the router as there is no user serviceable parts inside and the warranty would be voided in the case of tampering.

Do not drop, hit, shake the router in extreme vibrations.

Do not pull the power supply cable. Please attach or detach it by holding the connector after switching off the supply.

Install and connect the router in accordance with this document.

Failure to do so will void the warranty.

## 2 E210 Series Compatible Models

Please refer to the [E210 Series](#) product page on the Lantronix website for ordering information.

| MODEL NAME | TERRITORIES OR OPERATOR(S)          | CELLULAR TYPE <sup>1</sup> | BANDS <sup>2</sup>   | FALLBACK MODE(S) <sup>1</sup>       | BANDS <sup>2</sup> | LOCATION SERVICES    | PLANNED CERTIFICATIONS <sup>3</sup>           | FCS <sup>4</sup>           | ORDER CODE    |
|------------|-------------------------------------|----------------------------|--|-------------------------------------|--------------------|----------------------|---|----------------------------|---------------|
| E213       | World                               | Dual mode LTE-M1 / NB-IoT  | 12 <sup>a</sup> /28/13/20/26 <sup>b</sup> /8/3 <sup>c</sup> /4/2/1 | 2G <sup>A2</sup>                    | 5/8/3/2            | same as E214G's      | TBD   | Jun. '18                   | E213          |
| E214       | EMEA                                | LTE cat. 1                 | 28/20/8/3/1/7  | 3G <sup>C2</sup> ; 2G <sup>A3</sup> | 8/1; 8/3           | *                    | RED <sup>5</sup> , GCF                        | Sep. '18                   | E214#02       |
|            | Asia Pacific                        |                            | 28/5/8/3   | 3G <sup>C2</sup>                    | 5/8/1              | *                    | RCM; NCC; NBTC; SIRIM; IDA                    | Jun. '18                   | E214#358S#158 |
|            | China; Indonesia; India             |                            | 5/8/3/1/TDD 40/41 <sup>d</sup>                                     | 3G <sup>C2</sup> ; 2G <sup>A3</sup> | 8/1; 8/3           | same as E214G's      | CCC, NAL, SRRC; Postel; WPC                   | Sep. '18                   | E214#078      |
| E214G      | Verizon Wireless                    | LTE cat. 1                 | 13/4   | *                                   | N/A                | IZat™ gen. 8C gpsOne | FCC <sup>6</sup> , Verizon Wireless           | Jun. '18                   | E214G#01      |
|            | AT&T Wireless, T-Mobile USA, Sprint |                            | 12 <sup>a</sup> /5/4/2   | 3G <sup>C3</sup>                    | 5/4/2              |                      | ISED; FCC <sup>6</sup> , PTCRB, AT&T Wireless |                            | E214G#00      |
| E215       | EMEA, [most of] Asia Pacific        | 3G <sup>C1</sup>           | 8/1  | 2G <sup>A1</sup>                    | 8/3                | *                    | RED, GCF; SIRIM                               | Jun. '18                   | E215#02       |
| E218       | NTT docomo                          | LTE cat. 4                 | 19/21/1  | *                                   | N/A                | *                    | JPA, JRF                                      |                            | E218#1JL      |
|            | KDDI                                |                            | 18/11/1  |                                     |                    |                      |   |                            | E218#1BI      |
| E218G      | Asia Pacific                        |                            |  | 28/5/8/3/1/7                        | 3G <sup>C3</sup>   | 5/8/1                | same as E214G's                               | RCM; NCC; NBTC; SIRIM; IDA | Sep. '18      |

Please consult us regarding the models or features shown in grey, which are subject to MOQ and other considerations.

<sup>1</sup> Uplink / Downlink maximum data rates

- 2G: <sup>A1</sup> 85<sup>b</sup> / 236<sup>b</sup>; or 236<sup>b</sup> / <sup>A2</sup>236<sup>b</sup>; or <sup>A3</sup>296 kbps
- NB-IoT: 65 / 27 kbps
- LTE-M1: 375 / 300 kbps
- LTE cat. 1: 5 / 10 Mbps (FDD); 3<sup>1</sup> / 8<sup>96</sup>Mbps (TDD)
- 3G: 5<sup>76</sup> / <sup>C1</sup> 7<sup>2</sup>; or <sup>C2</sup> 10<sup>1</sup>; or <sup>C3</sup> 42<sup>2</sup>Mbps
- LTE cat. 4: 50 / 150 Mbps (FDD); 35 / 130 Mbps (TDD)

<sup>2</sup> Ranked by increasing frequencies

- <sup>a</sup> Also North America's B17 subset
- <sup>b</sup> Also KDDI's B18 and North America's B5 subsets, the latter containing NTT DoCoMo's B19 subset, itself containing Japan's B6 subset
- <sup>c</sup> Also Japan's B9 subset
- <sup>d</sup> In fact, the 2535 MHz ~ 2655 MHz subset of B41

<sup>3</sup> Besides MIL-STD-810G

- <sup>4</sup> First customer shipment [date of]
- <sup>5</sup> Also EN 60950-1

<sup>6</sup> Also Class I Division 2 for use in explosive atmospheres as a factory option subject to MOQ and other considerations

## 3 Product Features

### 3.1 General specification

|                        |                                  |
|------------------------|----------------------------------|
| Casing:                | Brushed Aluminum                 |
| Dimensions:            | 92x57x22(mm)                     |
| Weight:                | 150 g (approx.)                  |
| Operating temperature: | -20 °C ~ +60 °C; up to 95 % R.H. |
| Storage temperature:   | -40 °C ~ +85 °C; up to 95 % R.H. |
| Flash memory (SPI):    | 32 MB                            |
| RAM (DDR2 SD-RAM):     | 128 MB                           |
| Ethernet LAN & WAN:    | 10/100BASE-T                     |
| Wi-Fi:                 | IEEE 802.11b/g/n 2.4 GHz         |
| GPS:                   | IZat™ gen. 8C gpsOne             |

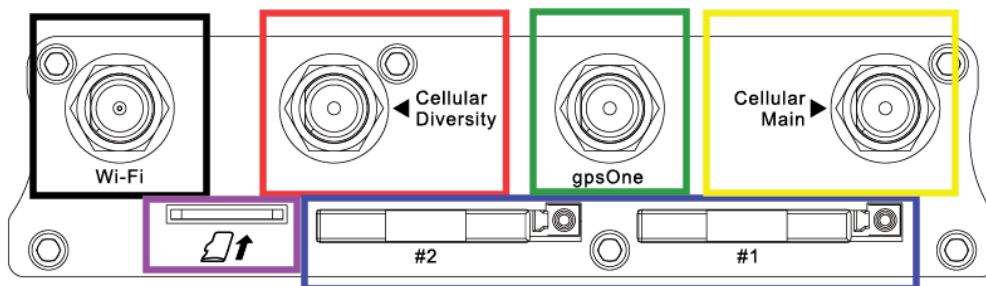
### 3.2 Power consumption (mA)

|  | 8V  | 12V | 32V |
|--|-----|-----|-----|
| <b><u>E213</u></b>   |     |     |     |
| Idle (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module off)      | 165 | 110 | 43  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module idle) | 265 | 171 | 65  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card connected, cellular module idle)    | 356 | 235 | 91  |
| GPRS (2Tx,3Rx)@900/850MHz (PCL=5)  | 530 | 356 | 135 |
| LTE in communication mode (Tx max.)  | 420 | 283 | 108 |
| <b><u>E214#358S#158</u></b>  |     |     |     |
| Idle (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module off)      | 118 | 79  | 30  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module idle) | 145 | 99  | 38  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card connected, cellular module idle)    | 270 | 187 | 73  |
| W-CDMA in communication mode (Tx max.)   | 575 | 386 | 146 |
| LTE in communication mode (Tx max.)  | 695 | 471 | 179 |
| <b><u>E214G#00</u></b>   |     |     |     |
| Idle (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module off)      | 137 | 90  | 34  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module idle) | 195 | 135 | 51  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card connected, cellular module idle)    | 290 | 203 | 82  |
| W-CDMA in communication mode (Tx max.)   | 650 | 445 | 170 |
| LTE in communication mode (Tx max.)  | 730 | 495 | 193 |

|  | 8V  | 12V | 32V |
|--|-----|-----|-----|
| <b><u>E215#02</u></b>  |     |     |     |
| Idle (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module off)      | 120 | 80  | 29  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module idle) | 143 | 98  | 37  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card connected, cellular module idle)    | 265 | 185 | 72  |
| GSM in communication mode (PCL=5)  | 380 | 252 | 98  |
| GPRS (2Tx,3Rx)@900/850MHz (PCL=5)  | 450 | 307 | 115 |
| W-CDMA in communication mode (Tx max.)   | 685 | 456 | 173 |
| <b><u>E218#04</u></b>  |     |     |     |
| Idle (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module off)      | 163 | 109 | 42  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module idle) | 250 | 165 | 61  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card connected, cellular module idle)    | 335 | 225 | 86  |
| GSM in communication mode (PCL=5)  | 450 | 305 | 115 |
| GPRS (2Tx,3Rx)@900/850MHz (PCL=5)  | 600 | 412 | 158 |
| W-CDMA in communication mode (Tx max.)   | 740 | 491 | 192 |
| LTE in communication mode (Tx max.)  | 690 | 465 | 177 |
| <b><u>E218G#04</u></b>   |     |     |     |
| Idle (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module off)      | 163 | 109 | 42  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card disconnected, cellular module idle) | 261 | 173 | 64  |
| Stand-by (WLAN, LAN, Wi-Fi, RS-232 & TF card connected, cellular module idle)    | 346 | 232 | 89  |
| GSM in communication mode (PCL=5)  | 461 | 313 | 118 |
| GPRS (2Tx,3Rx)@900/850MHz (PCL=5)  | 611 | 420 | 161 |
| W-CDMA in communication mode (Tx max.)   | 751 | 499 | 195 |
| LTE in communication mode (Tx max.)  | 701 | 473 | 180 |



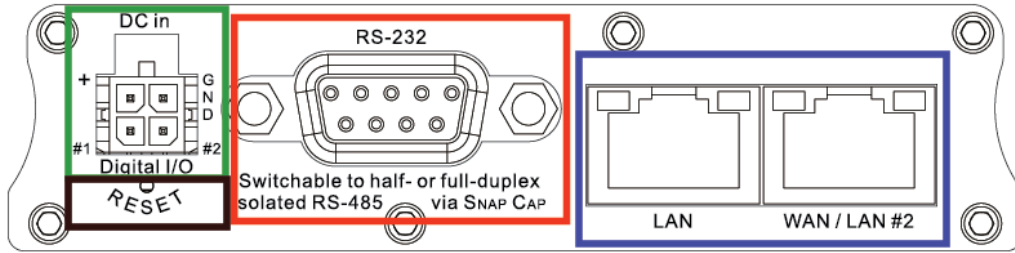
### 3.3 Back panel connection



- Black** – Wi-Fi antenna, RP-SMA connector
- Red** – Cellular diversity antenna, SMA connector
- Green** – GPS antenna, SMA connector
- Yellow** – Cellular main antenna, SMA connector
- Purple** – MicroSD-XC card slot
- Blue** – Dual SIM slots: Left: SIM 2; Right: SIM 1

Note: Depending on models, number of antenna connectors may vary.

### 3.4 Front panel connection



**Green – D.C. Power:**

4-pin Micro-fit 3.0 connector

Top L/R: 8 V ~ 32 Vdc  
 Bottom L/R: Two digital I/Os

Digital Input: 0 ~ 1 Vdc as low  
 1 ~ 36 Vdc as high

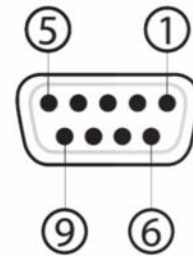
Digital Output: Open collector,  
 100 mA @ 24 Vdc max

**Black – Reset button:**

Back to default settings (push for 10 sec)

**Red – RS-232:**

1. DCD
2. Rx
3. Tx
4. DTR
5. Ground
6. DSR
7. RTS
8. CTS
9. RI



**Blue – Ethernet ports:**

Left: LAN  
 Right: WAN or set as 2<sup>nd</sup> LAN

## 4 Accessories

| Power supply / Power cable |   |
|----------------------------|---|
| ACC-PS20-F                 | 4-pin Micro-Fit, 1.2 A power adapter with Euro plug 2-pin - Europe                            |
| ACC-PS21-F                 | 4-pin Micro-Fit, 1.2 A power adapter with NEMA plug 3-pin - U.S./Europe/Taiwan/Japan          |
| ACC-PS22-F                 | 4-pin Micro-Fit, 1.2 A power adapter with AS3112 plug 3-pin - Australia/New Zealand/China     |
| ACC-PS23-F                 | 4-pin Micro-Fit, 1.2 A power adapter with BS1363 plug 3-pin - U.K./Ireland                    |
| ACC-CA10                   | 4-pin Micro-Fit (M) to stripped wire with 2.5 A fuse in 1 m length                            |
| Serial and USB cable       |   |
| ACC-CA07                   | DB9(M) to DB9(M) cable  |
| Antennae                   |   |
| ACC-A31                    | SISO, 2G, 3G and 4G, 698 – 960 MHz & 1710 – 2690 MHz, 3 m cable                               |
| ACC-A31H                   | SISO, 2G, 3G, 4G and GPS, 698 – 960 MHz & 1710 – 2700 MHz, 3 m cable                          |
| ACC-A32                    | MIMO, 2G, 3G and 4G, 698 – 960 MHz & 1710 – 2690 MHz, 3 m cable                               |
| ACC-A32H                   | MIMO, 2G, 3G, 4G and GPS, GNSS, Galileo & BeiDou, 698 – 960 MHz & 1710 – 2690 MHz, 3 m cable  |
| ACC-A33                    | MIMO, 2G, 3G, 4G and GPS, 698 – 960 MHz & 1710 – 2690 MHz, 3 m cable                          |
| ACC-A33H                   | MIMO, 2G, 3G, 4G, 698 – 960 MHz & 1710 – 2690 MHz, 3 m cable                                  |
| Miscellaneous              |   |
| ACC-DIN-E210               | Metal DIN Rail clip   |
| Snap-cap                   | Converter: RS-232 DB-9 port into an isolated, half/full-duplex (switchable) 5-pin RS-485 port |

## 5 LED Status Indicator



The E210 operation status is indicated by six LEDs as shown above, and described in the below table;

| Name     | Color and Status | Description   |
|----------|------------------|---|
| Wi-Fi    | OFF              | Wi-Fi network is inactive                           |
|          | Blue ON          | Wi-Fi network is activated                          |
|          | Blue Flashing    | Wi-Fi network data transferring                     |
| Activity | OFF              | Cellular data service not connected                 |
|          | Amber ON         | Cellular data service connected                     |
|          | Amber Flashing   | Cellular data transferring                          |
| Network  | OFF              | Not registered on cellular network                  |
|          | Amber ON         | Registered on cellular network (home)               |
|          | Amber Flashing   | Registered on cellular network (roaming)            |
| Signal   | OFF              | No signal (CSQ=0 to 5, 97, 98, 99)                  |
|          | Amber Flashing   | Weak signal (CSQ ≤ 12)                              |
|          | Amber ON         | Strong signal (CSQ ≥ 12)                            |
| Power    | OFF              | Power off   |
|          | Green ON         | Power on  |
| Alert    | OFF              | No alert  |
|          | Red Flashing     | Booting, SIM card not inserted, FW upgrading        |
|          | Red ON           | Hardware fault (i.e. overheated, memory corruption) |

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## 6 Setup

### 6.1 Prerequisite

Prior to the E210 series router setup:

- Activated SIM card
- Ethernet cable
- Wi-Fi and cellular antenna
- Ethernet port or Wi-Fi connectivity on the computer
- Web browser; Internet Explorer 8+, Google Chrome, Mozilla Firefox or Safari for accessing the Web Admin Console
- DHCP set to enable

#### Enabling DHCP on Windows:

**Start** menu → **Control Panel** → **Network and Internet**

→ **Network and Sharing Center** → **Change adapter settings**

→ Right click on **Local Area Connection** → **Internet Protocol Version 4(TCP/IPv4)**

→ **Properties**

→ **Obtain an IP address automatically & Obtain DNS server address automatically**

#### Enabling DHCP on MAC OS:

→ Launch **System Preferences**, then choose **Network**.

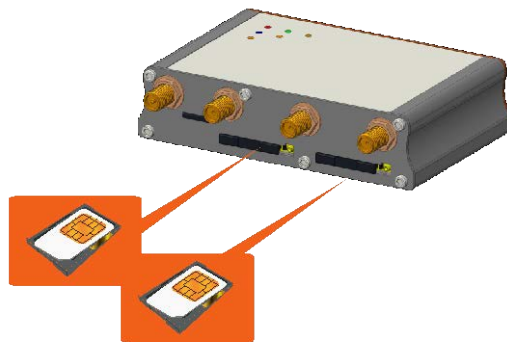
→ Select **Ethernet** from the **adapters list** on the left.

→ Set the Configure IPv4 drop-down to **Using DHCP**

## 6.2 Connecting the E210 router

### Inserting SIM cards

- i) Eject the SIM tray by pushing the yellow eject button inwards.
- ii) Pull the SIM tray out from the slot.
- iii) Place the mini-SIM card on the tray with SIM chip facing up.
- iv) Insert the tray back in place carefully.

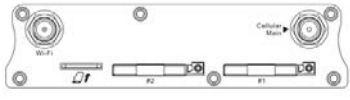
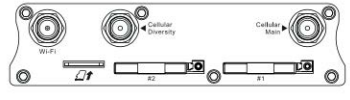
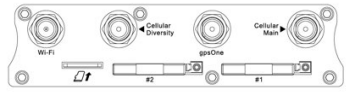


### Connecting the AC power

Connect the A.C. power cord as shown below and refer to **Section 4.3** in Green, **D.C. Power**.



## Antenna connection

| Main          | Series       | Auxiliary        | Picture  |
|---------------|--------------|------------------|--|
| Cellular only | E213<br>E215 | N/A              |  |
|               | E214<br>E218 | Cellular only    |  |
|               | E214G        | GPS and cellular |  |

Note: Dual cellular antennae improve data throughput/performance on cellular data transfer rate.



Cellular antenna selections base on frequency bands of cellular network operators in individual countries, refer to **Section 2, E210 series compatible models** or contact Lantronix technical support at <https://www.lantronix.com/support>

## Connecting the router to a computer

Connect an Ethernet cable between the LAN port of the E210 series router and a computer as shown below and can refer to section 4.2 in Blue, **Ethernet ports**.





### 6.3 Software configuration

Open a web browser, use the below default LAN IP address;

| Parameters       | Details     |
|------------------|-------------|
| IP Address (LAN) | 192.168.1.1 |
| Username         | admin       |
| Password         | admin       |

Note: Username and password are both case sensitive.

Enter the above default login credentials when the below appears on the web browser;

Click **Quick Setup** as shown below to go to **Network Setup** page;

**Network Setup** page;

The screenshot shows the 'Network Setup' page in the Maestro web interface. The page has a navigation bar with 'Maestro' and links for 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. The main heading is 'Network Setup'. Below it, there are four sections: 'Local Network', 'WAN', 'Cellular', and 'WiFi'. Each section contains configuration fields. At the bottom, there are three buttons: 'Save & Apply', 'Save', and 'Reset'.

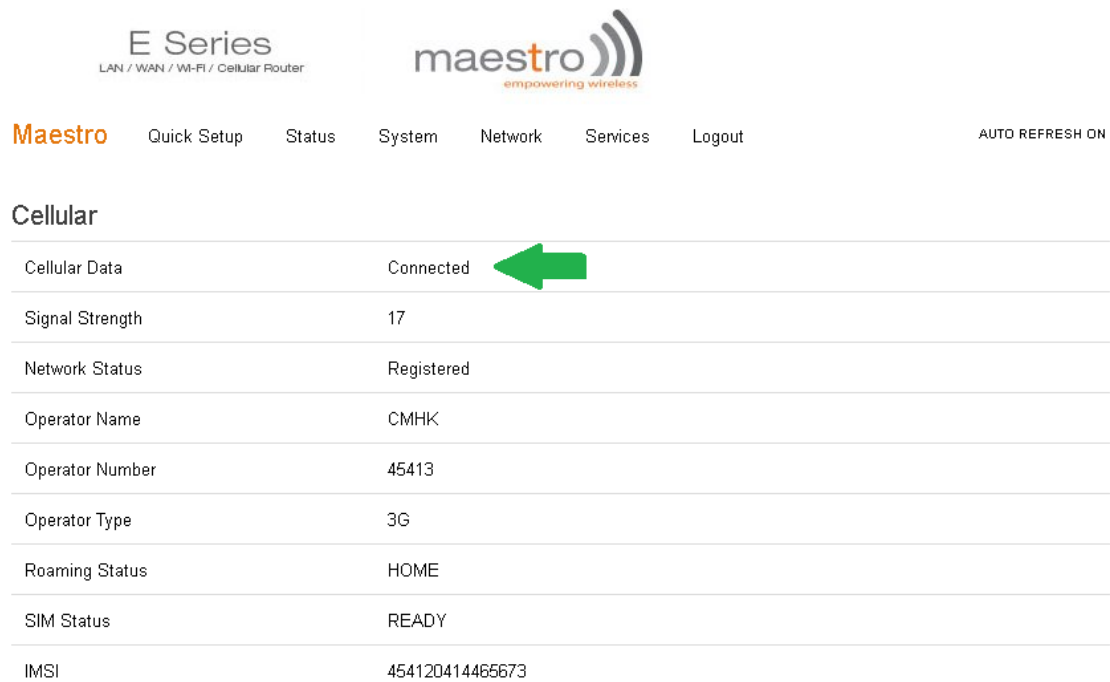
| Section       | Field        | Value                               |
|---------------|--------------|-------------------------------------|
| Local Network | IPv4-Address | 192.168.1.1                         |
|               | IPv4-Netmask | 255.255.255.0                       |
|               | IPv4-Gateway |                                     |
| WAN           | Protocol     | automatic                           |
| Cellular      | APN          | msedclgprs.com                      |
|               | PIN          |                                     |
|               | Username     |                                     |
|               | Password     |                                     |
| WiFi          | Enable       | <input checked="" type="checkbox"/> |
|               | SSID         | admin                               |
|               | Password     | *****                               |

If the above default settings need to be changed, settings can be manually configured for **LAN**, **WAN**, **Cellular** and **Wi-Fi**, then click **Save & Apply** to store the configuration.

In **Cellular**, all fields such as **APN** depend on SIM cards provider/cellular network operator, enquire with them for authentication credentials if needed.

After all of above procedures, cellular connection should be established within one minute with adequate signal reception (if the default setting is used).

To see the status of the cellular connection, from the pull-down menu at the top, click **Status** and scroll down to **Cellular** as shown below;



The screenshot shows the web interface for an E Series Cellular Router. At the top, there are logos for 'E Series LAN / WAN / Wi-Fi / Cellular Router' and 'maestro empowering wireless'. Below the logos is a navigation menu with items: 'Maestro', 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. On the right side of the menu, there is a link for 'AUTO REFRESH ON'. The main content area is titled 'Cellular' and contains a table with the following data:

|                 |                 |
|-----------------|-----------------|
| Cellular Data   | Connected       |
| Signal Strength | 17              |
| Network Status  | Registered      |
| Operator Name   | CMHK            |
| Operator Number | 45413           |
| Operator Type   | 3G              |
| Roaming Status  | HOME            |
| SIM Status      | READY           |
| IMSI            | 454120414465673 |

A green arrow points to the 'Connected' status in the first row of the table.

## 7 Technical Support

For technical queries, please visit the Lantronix Technical Support website.

Online: <https://www.lantronix.com/support>