

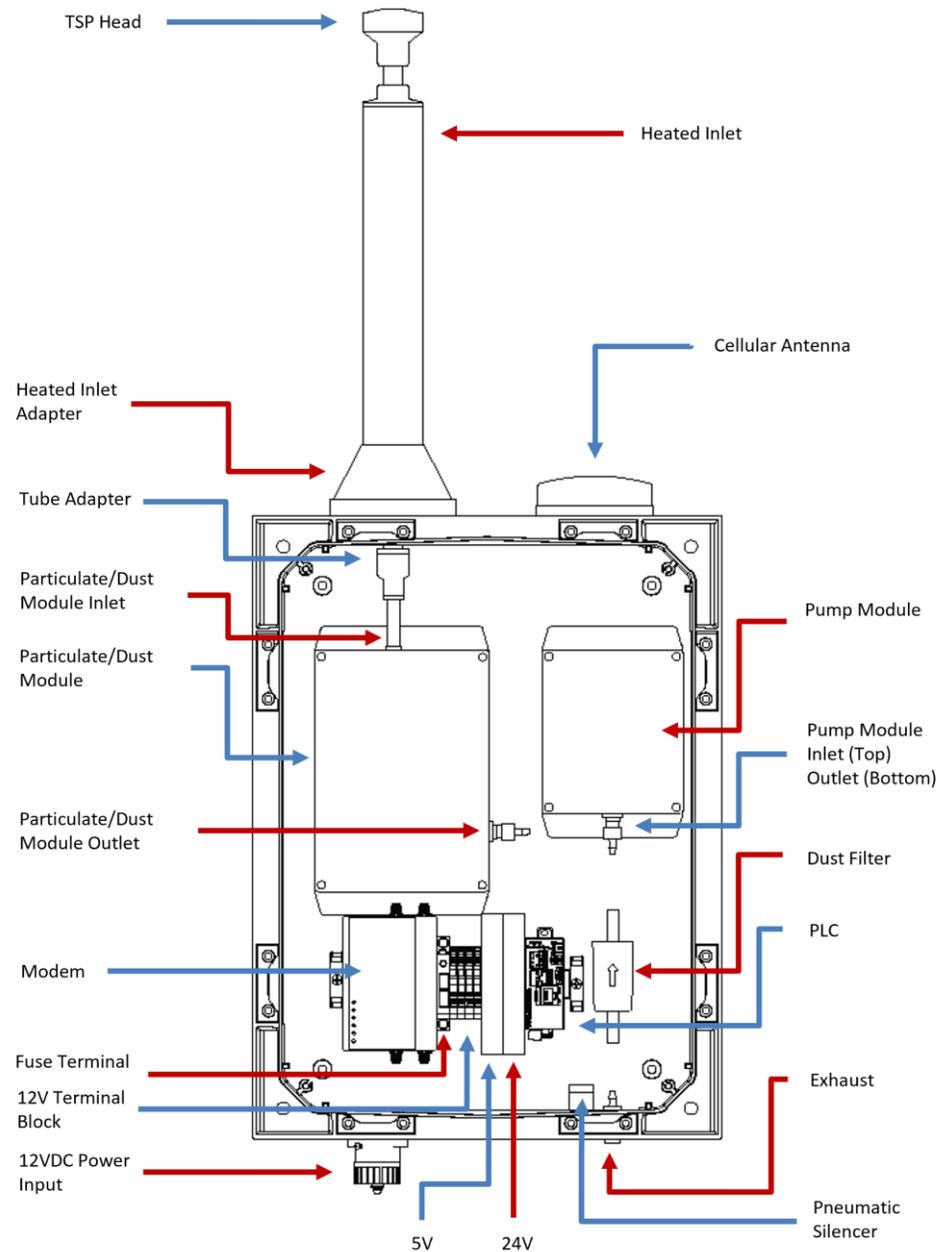
# AirMetER-DX

## MAESTRO/LANTRONIX WI-FI SETUP GUIDE

Revision | June 2023



# LAYOUT OVERVIEW



# WI-FI SETUP

1. To remove the modem from the DIN rail, push the modem vertically to compress the mount clip, then tilt the top of the modem down towards yourself to release it from the rail.

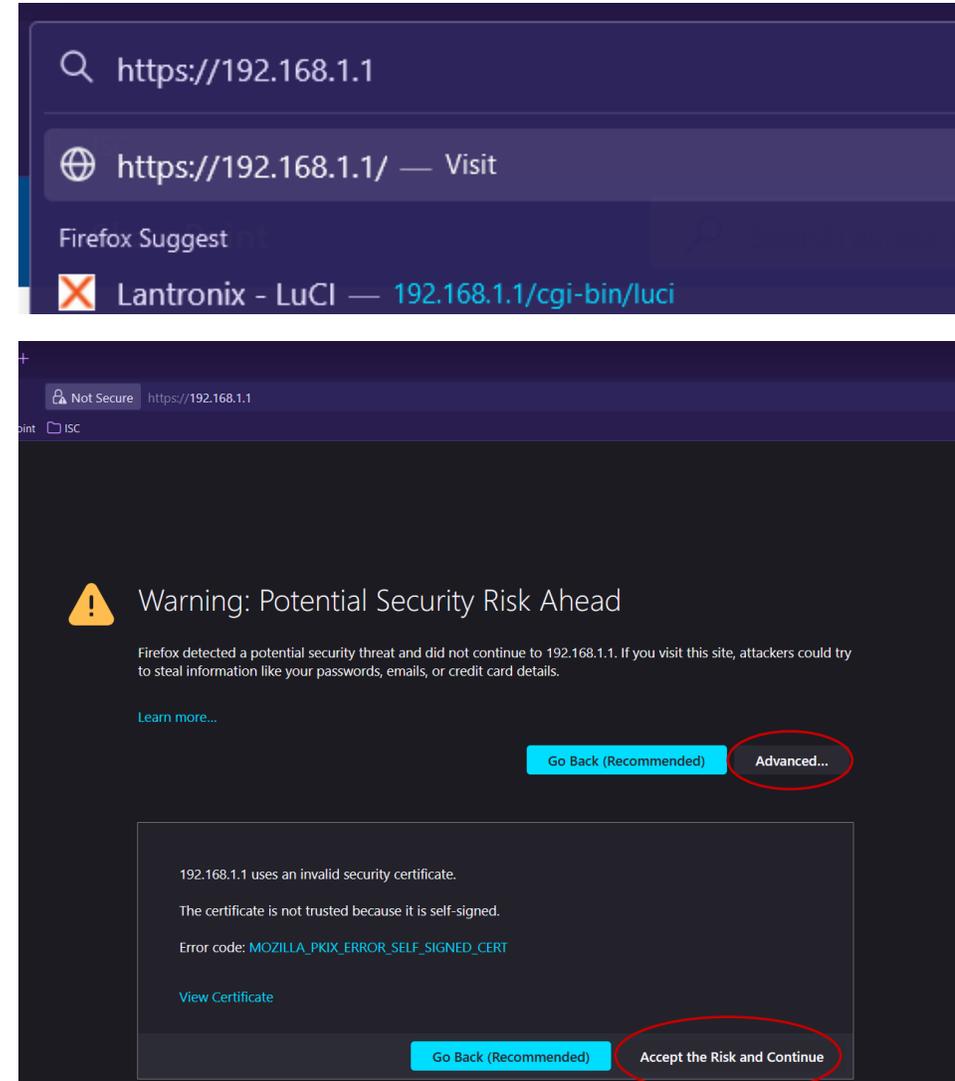


2. Remove the black cover and screw the Wi-Fi antenna into place. Install an ethernet cable between your computer and the LAN1 port of the modem. If you previously turned the instrument off, turn it back on now. Once the blue Wi-Fi LED displays on the modem, it will be ready to configure.



# WI-FI SETUP

3. Open your browser and navigate to `https://192.168.1.1/`
4. Click Advanced then select Accept the Risk and Continue.



# WI-FI SETUP

5. The Lantronix or Maestro login page will load.  
Username: admin  
Password: 711CeylonStreet

E Series  
LAN / WAN / Wi-Fi / Cellular Router.

**LANTRONIX**  
CONNECT SMART. DO MORE.

Lantronix  
**Authorisation required**  
Please enter your username and password.

Username

Password

6. Navigate to Network > Wi-Fi

E Series  
LAN / WAN / Wi-Fi / Cellular Router.

**LANTRONIX**  
CONNECT SMART. DO MORE.

Lantronix Quick Setup Status System **Network** Services Logout AUTO REFRESH ON

Thank you for using Lantronix E224#358S#158 Router.

Please refer to the label on your router or the status page to...

Quick Setup will guide you through the basic configurations... interface configurations, all other parameters will be set at the... Please refer to the user manual for a list of factory default configuration.

For advanced users, please follow the Network Tab to select... as you wish.

- Interfaces
- Failover / Fallback and Load Balancing
- Wifi**
- DHCP and DNS
- Hostnames
- Whitelist/Blacklist
- Static Routes
- Diagnostics
- Firewall

# WI-FI SETUP

7. Check for an existing Wi-Fi connection. Should there be one from a previous installation, you can remove this by clicking the remove button. The Lantronix E220 connection does not need to be removed.

The screenshot displays the Lantronix E Series router's web interface. At the top, it shows the 'E Series' logo and 'LANTRONIX' branding. The navigation menu includes 'Lantronix', 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. The main content area is titled 'Wireless Overview' and shows a single wireless network: 'Generic MAC80211 802.11bgn (radio0)'. This network is on channel 1 (2.412 GHz) with a bitrate of 58.5 Mbit/s. It is in 'Master' mode with an SSID of 'Lantronix E220' and a BSSID of 'A4:AE:9A:04:17:82'. The encryption is 'mixed WPA/WPA2 PSK (CCMP)'. The signal strength is 71%. Action buttons for 'Scan', 'Add', 'Disable', 'Edit', and 'Remove' are visible. Below this, the 'Associated Stations' section contains a table with one entry for the 'Lantronix E220' station.

**E Series**  
LAN / WAN / WI-FI / Cellular Router.

**LANTRONIX**  
CONNECT SMART. DO MORE.

Lantronix Quick Setup Status System Network Services Logout AUTO REFRESH ON

radio0: Master "Lantronix E220"

### Wireless Overview

**Generic MAC80211 802.11bgn (radio0)**  
Channel: 1 (2.412 GHz) | Bitrate: 58.5 Mbit/s

71% **SSID:** Lantronix E220 | **Mode:** Master  
**BSSID:** A4:AE:9A:04:17:82 | **Encryption:** mixed WPA/WPA2 PSK (CCMP)

Buttons: Scan, Add, Disable, Edit, Remove

### Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
Lantronix E220	F8:94:C2:D5:88:D8	192.168.1.212	-60 dBm	0 dBm	6.0 Mbit/s, MCS 0, 20MHz	58.5 Mbit/s, MCS 6, 20MHz

# WI-FI SETUP

8. Click Scan to search for the intended Wi-Fi network.
9. Find the intended Wi-Fi network with the greatest signal and click Join Network.

E Series  
LAN / WAN / Wi-Fi / Cellular Router.

LANTRONIX  
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Lantronix Quick Setup Status System Network Services Logout AUTO REFRESH ON

radio0: Master "Lantronix E220"

### Wireless Overview

Generic MAC80211 802.11bgn (radio0)  
Channel: 1 (2.412 GHz) | Bitrate: 58.5 Mbit/s

71% SSID: Lantronix E220 | Mode: Master  
BSSID: A4:AE:9A:04:17:82 | Encryption: mixed WPA/WPA2 PSK (CCMP)

Scan Add Disable Edit Remove

### Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
Lantronix E220	F8:94:C2:D5:88:D8	192.168.1.212	-60 dBm	0 dBm	6.0 Mbit/s, MCS 0, 20MHz	58.5 Mbit/s, MCS 6, 20MHz

E Series  
LAN / WAN / Wi-Fi / Cellular Router.

LANTRONIX  
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Lantronix Quick Setup Status System Network Services Logout

### Join Network: Wireless Scan

34% RHF2S025\_F1CE98  
Channel: 4 | Mode: Master | BSSID: FC:6B:F0:F1:CE:97 | Encryption: WPA2 - PSK

51% AMS-Guest  
Channel: 11 | Mode: Master | BSSID: 10:F0:68:76:46:68 | Encryption: WPA2 - PSK

Join Network Join Network

# WI-FI SETUP

10. Uncheck the box for Replace wireless configuration.

11. Enter the Wi-Fi network's password in the WPA passphrase section.

12. Click Submit.

The screenshot shows the 'Join Network: Settings' page for a Lantronix E Series router. The page includes a navigation menu with 'Lantronix', 'Quick Setup', 'Status', 'System', 'Network', 'Services', and 'Logout'. The main content area has a 'Replace wireless configuration' checkbox checked, with a note: 'An additional network will be created if you leave this unchecked.' Below this is a 'WPA passphrase' field with a masked password and a 'Specify the secret encryption key here.' checkbox. The 'Name of the new network' field contains 'wwan', with a note: 'The allowed characters are: A-Z, a-z, 0-9 and \_'. The 'Create / Assign firewall-zone' section has three radio button options: 'lan:', 'wan: wan: cellular: openvpn\_1: openvpn\_2:' (which is selected), and 'unspecified -or- create:'. A note at the bottom states: 'Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the create field to define a new zone and attach the interface to it.' At the bottom right, there are 'Submit' and 'Back to scan results' buttons.

# WI-FI SETUP

- When you reach this page, simply wait for the status to load before selecting Save & Apply.

The screenshot shows the configuration page for the wireless network 'AMS-Guest' (radio0.network1) on a Lantronix E Series router. The page is divided into several sections:

- Header:** Lantronix logo, E Series LAN / WAN / WiFi / Cellular Router, and the slogan 'CONNECT SMART. DO MORE.'.
- Navigation:** Quick Setup, Status, System, Network, Services, Logout.
- Wireless Network: Master "AMS-Guest" (radio0.network1):** A section explaining that the Device Configuration section covers physical settings like channel, transmit power, and antenna selection, while Interface Configuration covers encryption and operation mode.
- Device Configuration:** Includes a 'General Setup' tab and an 'Advanced Settings' tab. The status bar shows '0%' and 'Mode: Master | SSID: AMS-Guest'. Below this, there are controls for 'Wireless network is enabled' (with a 'Disable' button), 'Channel' (set to 11 (2.462 GHz)), and 'Transmit Power' (set to 20 dBm (100 mW)).
- Interface Configuration:** Includes a 'General Setup' tab and a 'Wireless Security' tab. The 'Mode' is set to 'Client'. The 'ESSID' is 'AMS-Guest' and the 'BSSID' is '10:F0:68:76:46:68'. Under the 'Network' section, there are checkboxes for 'cellular', 'lan', 'openvpn\_1', 'openvpn\_2', 'wan', 'wwan' (which is checked), and 'create'. A note at the bottom of this section says 'Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.'
- Footer:** A 'Save & Apply' button is highlighted in yellow, along with 'Save' and 'Reset' buttons.

# WI-FI SETUP

14. Check the Wi-Fi details that you have set up. To confirm the modem is connected to the internet through the Wi-Fi network, check for values in signal, RX Rate and TX Rate. Should these all be populated, then the instrument is successfully connected to the Wi-Fi network.

The screenshot displays the Lantronix E Series web interface. At the top, it identifies the device as an "E Series LAN / WAN / WI-FI / Cellular Router" with the Lantronix logo and tagline "CONNECT SMART. DO MORE.". A navigation menu includes "Lantronix", "Quick Setup", "Status", "System", "Network", "Services", and "Logout". Below the menu, it shows "radio0: Master 'Lantronix E220'" and "radio0: Client 'AMS-Guest'".

The "Wireless Overview" section shows two wireless networks:

- Generic MAC80211 802.11bgn (radio0)**: Channel: 1 (2.412 GHz) | Bitrate: 57.8 Mbit/s. It lists two networks:
  - SSID: Lantronix E220 | Mode: Master**: BSSID: A4:AE:9A:03:D1:C5 | Encryption: mixed WPA/WPA2 PSK (CCMP). Signal strength is 0%. Buttons: Disable, Edit, Remove.
  - SSID: AMS-Guest | Mode: Client**: BSSID: 10:F0:68:76:46:68 | Encryption: WPA2 PSK (CCMP). Signal strength is 68%. Buttons: Disable, Edit, Remove.

The "Associated Stations" section contains a table with the following data:

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
AMS-Guest	10:F0:68:76:46:68	?	-62 dBm	0 dBm	72.2 Mbit/s, MCS 7, 20MHz	57.8 Mbit/s, MCS 11, 20MHz

# CONTACT US

## NEED HELP?

If you have any questions or require troubleshooting while using this guide, our team are here to assist you. Please feel free to contact us at any of the following means:

 1800 000 744

 [engineeredolutions@airmet.com.au](mailto:engineeredolutions@airmet.com.au)

 [www.airmet.com.au](http://www.airmet.com.au)

Alternatively, scan the QR code to locate your nearest Air-Met Scientific office.

