



SHIELD MegaFi 2

User Manual – B28 Version

Welcome

This MegaFi 2 User Manual goes over details about what is in the box, installation instructions, local and cloud access to the device, and its specifications.

In addition to the MegaFi 2 User Manual, additional information and support for your device can be found at <https://www.nextivityinc.com>.

Customer Responsibilities

The customer is responsible for the following:

- Providing and configuring the connected devices and configuring the MegaFi 2 router as needed for internet and/or private wide area network access.
- Providing Internet access:
 - Via your carrier activated SIM on the wireless WAN connection; or
 - Via a wired ethernet connection to the WAN port.
- Providing power and environmental operating conditions within the following ranges:

Parameter	Value
Temperature Range	-30°C to +65°C [-22°F to 149°F]
Operating Humidity	(Non-Condensing) 0 to 95%
Power	DC: 9 to 36 VDC power – device accepts PoE+ (802.3at) on WAN/LAN2 port only 🔗 NOTE: MegaFi 2 power adapters are not interchangeable with other devices. Only use the power cord supplied and approved by Nextivity with your MegaFi 2.

1. Accept the End User License Agreement and change the default password when first logging into the local graphical user interface (Mission Control), when locally connected to the device at <https://192.168.113.1>.
2. Register your MegaFi 2 through the [Nextivity Cloud Portal](#). See Section 5: *Cloud Access via the Nextivity MegaPortal* on page 21 for more information.
3. Other responsibilities are specified in your End User License Agreement as well as your agreements with your carrier, and other providers.

Frequently Asked Questions

Q How do I determine if MegaFi 2 will improve my cellular network connectivity?

A If your enterprise or agency is located within an area in which your carrier is licensed to provide cellular service and your signal strength is two bars or fewer, MegaFi 2 may be a good solution for you. MegaFi 2 is designed to support up to 256 connected devices and is designed to provide the highest-power wireless connection (WWAN) and a wired network connection (WAN) for all your edge router needs.

High-power mode will only work on Band 28. Your carrier can help determine if your nearest tower supports Band 28.

Q What changes will I notice to my mobile service once I install the MegaFi 2?

A A data session made through MegaFi 2 will have improved signal strength, coverage, and clarity resulting in generally higher uplink speeds and lower transmit packet loss in challenging coverage areas.

Connected phones with Wi-Fi turned on will experience better calls with fewer drops.

Q Does the MegaFi 2 require professional installation?

A Professional installation is not necessary for traditional in-office or in-home use. If installing in a vehicle or where an external antenna is needed, a professional installer is highly recommended. Your carrier can arrange to have your device professionally installed, and a quote can be obtained from them or your authorized seller.

Q How do I log into my device for the first time?

A Connect a computer (mobile phone not recommended) locally to the device with an ethernet cable or via the Wi-Fi connection:

- 1) Open your computer browser window and enter <https://192.168.113.1> and accept any browser certificate warnings to get to the local Mission Control login page.
- 2) At the Mission Control login screen, enter “**admin**” as the username and the default password, which is available from the router’s label or LCD display, and click **Login**.
- 3) When the End User License Agreement appears, complete the information at the bottom of the form and click **Apply**.
- 4) When directed, update your password AND press **Save**.

Q How do I get support if I have more questions?

A Contact the representative that sold you your MegaFi 2 or see our [SHIELD MegaFi 2 product page](#). You can also email support at support@nextivityinc.com.

Safety Precautions

- When installing the equipment, all the requirements of the manufacturer and the referenced standards must be met.
- There are no user serviceable parts inside.

Limitation of Liability

In no event shall Nextivity, nor its directors, employees, agents, suppliers or End Users, be liable under contract, tort, strict liability, negligence or any other legal or equitable theory with respect to the Products or any other subject matter of this Agreement (i) for any lost profits, cost of procurement of substitute goods or services, or special, indirect, incidental, punitive, or consequential damages of any kind whatsoever or (ii) for any direct damages in excess of (in the aggregate) the fees actually received by

Nextivity from End User with respect to the Products actually purchased and paid for.

Patents

This product is covered by Nextivity, Inc., U.S. patents and patents pending. Please refer to www.nextivityinc.com for details.

Trademark

The Nextivity logo is a trademark of Nextivity, Inc.

Legal Disclaimer

For further information on terms of service and other conditions go to <https://nextivityinc.com/legal>.

Contact Information

Technical Support:

Email:	support@nextivityinc.com
Phone:	+1 (858) 485-9442 Option 1
Support Business Hours:	6:00 AM – 5:00 PM PST

Sales:

Phone:	+1 (858) 485-9442 Option 2
---------------	----------------------------

Warranty

Nextivity, Inc. provides a limited warranty for its products. For details, please refer to <https://www.nextivityinc.com/warranty>.

Online Technical Support

For online self-help support, FAQs, documentation, go to <https://nextivityinc.com/products/shield-megafi-2-hpue/> and scroll down to the About the Shield MegaFi 2 section.

User Manual Purpose

The purpose of this document is to provide the user with an introduction to the SHIELD MegaFi 2 wireless WAN router. This Manual will also provide details on installation and some interoperability scenarios.

-
- **NOTE:** All images used in this document are used only for displaying examples of configurations and may not reflect the user's current device.
-

Table of Contents

1 Introduction.....	1
1.1 Features and Benefits.....	1
1.2 Description	2
1.3 What’s Inside the Kit/Box	4
2 Hardware Installation.....	6
2.1 Install the SIM Card (Fixed or Mobile Kits).....	6
2.2 Fixed Kit: Fixed or Office Installation.....	7
2.3 Mobile Kit: Vehicle or Mobile Installation.....	9
3 SHIELD MegaFi 2 LCD Display.....	14
3.1 MegaFi 2 LCD Display - Status and Information.....	14
3.2 MegaFi 2 LCD Display – Overview of Settings.....	17
4 Log Into the MegaFi 2 - Mission Control.....	18
4.1 Using the Mission Control Router Software.....	18
5 Cloud Access via the Nextivity MegaPortal.....	21
5.1 Create Account and Sign In.....	21
6 MegaFi 2 Specifications	22
6.1 Cellular	22
6.2 Host Interfaces.....	22
6.3 Security	22
6.4 Wi-Fi	22
6.5 Satellite Navigation (GNSS)	23
6.6 Environmental	23
6.7 Power (Fixed and Mobile).....	23
6.8 Network and Routing	24
6.9 Supported Warranty	24
6.10 Mechanical and Packaging.....	24
6.11 Antennas	24
6.12 Dimensions	25

1 | Introduction

The SHIELD MegaFi 2 is an integrated High Power User Equipment (HPUE) device that functions as a 5G multi-port router and Wi-Fi hotspot, operating across all carrier bands. It is the first device to combine 5G connectivity with HPUE performance—delivering up to six times the power of standard wireless devices.

With this advanced power output, the MegaFi 2 provides reliable broadband connectivity for FirstNet users and enterprises, even in remote locations and deep indoor environments where traditional signals cannot penetrate. The device includes a graphical display for real-time monitoring of performance and system status, and incorporates Nextivity's IntelliRange® technology for optimized coverage.

1.1 Features and Benefits

- Supports 5G and NSA and LTE Cat 20
- Power Class 1 on LTE Band 28; Power Class 3 on all other bands
- Upgradeable to Power Class 1 on 5G n28 as the network evolves
- Industry-leading range, coverage, penetration, and capacity
(Maximizes connection availability in challenging environments)
- High-speed cellular data rates:
 - Peak D/L: Up to 1.0 Gbps (NSA), 1.0 Gbps
 - Peak U/L: Up to 0.55 Gbps (NSA) / 0.90 Gbps
- Integrated GPS and location services
- Built-in Wi-Fi hotspot
- Intuitive graphical interface for system status and connectivity indicators
- Dual-SIM functionality *(available through future software update)*

Available Kit Options

The SHIELD MegaFi 2 router is available in the three following kit configurations:

- **SHIELD MegaFi 2 Mobile** – SKU: M4D-VC-V01
- **SHIELD MegaFi 2 Fixed** – SKU: M4D-VC-F01

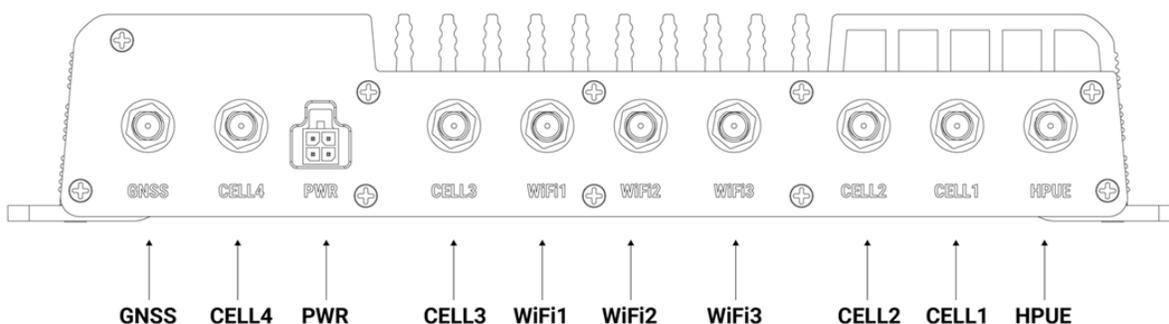
Learn more about SHIELD MegaFi 2:

www.nextivityinc.com/products/shield-megafi-2-hpue/

1.2 Description

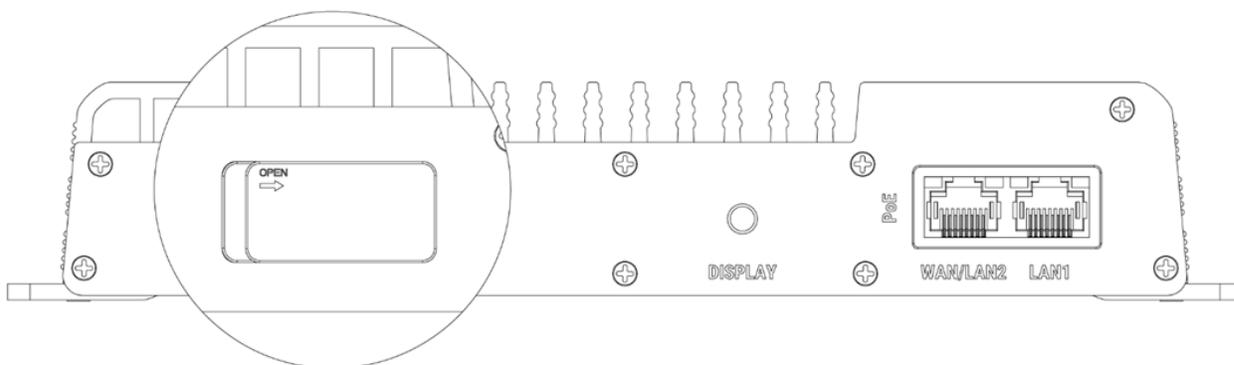
The MegaFi 2 router has nine (9) subminiature version A (SMA) connectors that are labeled: **GNSS**, **CELL 4**, **CELL 3**, **WiFi 1**, **WiFi 2**, **WiFi 3**, **CELL 2**, **CELL 1**, and **HPUE**. The **PWR** (power port) is also located in between these connectors.

➔ **NOTE:** Wi-Fi 1, 2 and 3 are reverse SMA connectors.

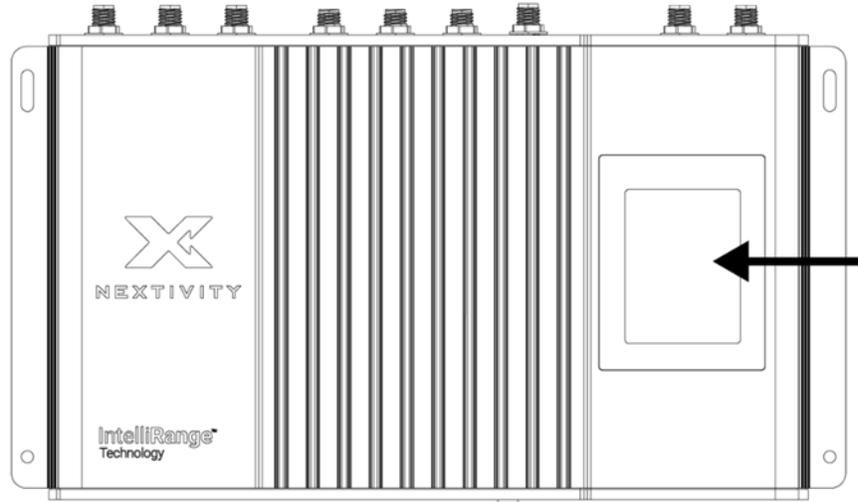


On the other side of the device, there are:

- SIM Slot
- DISPLAY Button
- Ports WAN/LAN2 with PoE capability and LAN1



On the top of the device, there is an LCD Display. For more detailed information on the LCD Display, go to Section 3 *SHIELD MegaFi 2 LCD Display*.



Underneath the device, you will find a label that shows the following device information:

- Model
- IMEI
- Serial Number
- MAC address
- Default IP address to access the Mission Control GUI
- Mission Control log-in username and default password
- SSID name and default password

X NEXIVITY, INC.
SHIELD MegaFi 2
M/N: M4D-VC



IMEI:359172391104787



SN:250302000025



MAC:34BA9AC35493



Default IP Address:192.168.113.1



Username: admin
SSIDmegafi-000025

Password: QGEzy43872
Password: QGEzy43872

Designed in California
Made in Vietnam

+9-36V == 3.2A

410N032-M4D-10



1.3 What's Inside the Kit/Box

The SHIELD MegaFi 2 comes in two (2) different kits. The different kits with their respective list of parts are listed below.

SHIELD MegaFi 2 Fixed Kit:

- High Power MegaFi 2 Router
- AC power adapter
- SIM Ejector Tool (not pictured)
- Ethernet cable
- Paddle antennas – 5x Cell (black), 3x Wi-Fi (black)
- GPS antenna (not included, but is an optional accessory)



SHIELD MegaFi 2 Mobile Kit:

- High Power MegaFi 2 Router
- Locking DC power cable
- SIM Ejector Tool
- Roof mount 9-in-1 antenna includes 4x Cellular, 3x Wi-Fi, 1x HPUE and 1x GPS connection
- Ethernet cable



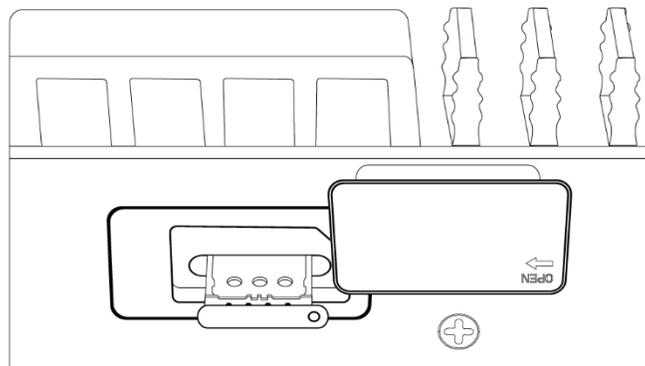
2 | Hardware Installation

Depending on the kit, 'Fixed' versus 'Mobile', refer to the appropriate section and steps below for installation details.

2.1 Install the SIM Card (Fixed or Mobile Kits)

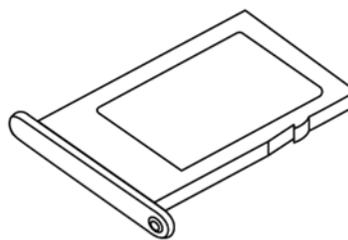
➤ **NOTE:** If the SIM card has been pre-installed, skip this part.

1. Remove the SIM card cover by pressing a thumbnail or flathead screwdriver in the gap between the metal and plastic. You should now see the edge of the black SIM tray.

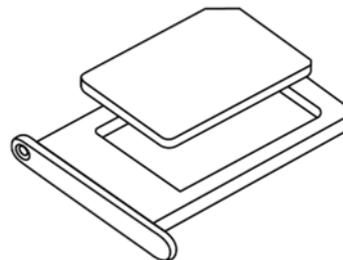


2. Remove the SIM tray with the included SIM Ejector Tool by inserting the tool into the hole on the SIM tray; the tray should pop partway out. Remove the SIM tray completely.
3. Insert your activated SIM into the tray.

right side up



up side down



➤ **NOTE:** Flip the tray around so that the tray is notched so the card can be inserted the correct way. Press the cover back into place.

2.2 Fixed Kit: Fixed or Office Installation

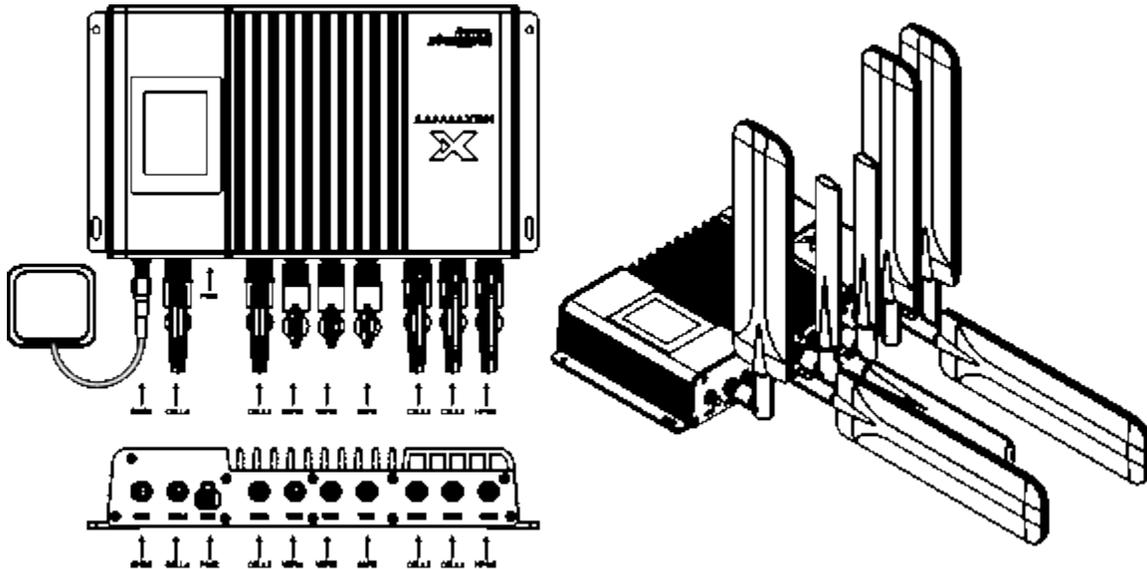
Below are detailed steps for installing the Fixed MegaFi 2 kit.

➤ **NOTE:** Only use the power cord supplied with your MegaFi 2.

Attach the Antennas

1. Attach each paddle antenna to its respective port as illustrated by holding the antenna straight and twisting the base to thread onto the connector. Do not over-tighten. Finger-tight is sufficient. For optimal signal reception, alternate the antenna orientations as shown below.

➤ **NOTE:** The GPS “puck”-style antenna is an optional accessory.



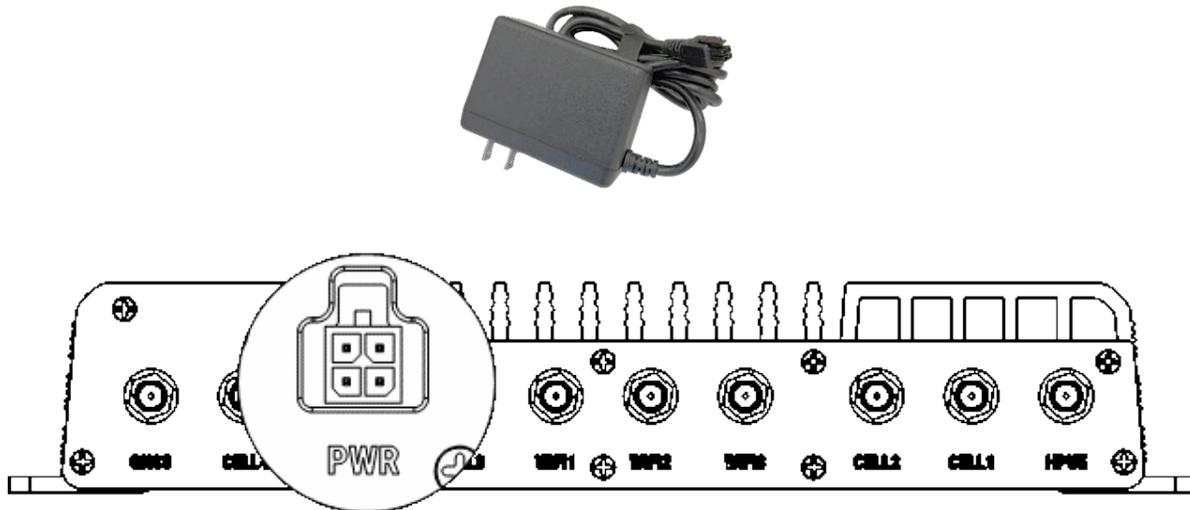
2. Connect the 5 bigger black paddle Cellular antennas to the **HPUE** and **CELL** ports, and connect the 3 smaller black **WiFi** antennas to the **WiFi 1**, **WiFi 2**, and **WiFi 3** ports and the GPS “puck”-style antenna to the **GNSS** port. Please note, **WiFi** ports have a pin, while the **HPUE** and **CELL** ports do not. **WiFi** antennas do not have a pin, while Cellular antennas do have a pin. Connecting a Cellular antenna with a pin to a **WiFi** port with a pin will damage one or the other or both.

➤ **NOTE:** SMA connectors have a maximum torque of 0.34-0.54 Nm torque limit. Over-torquing can cause damage and void warranty.

3. For best performance it is highly recommended to locate the MegaFi 2 near a southern facing window with an unobstructed view of the sky for best GPS coverage.
4. The MegaFi 2 device needs to be installed more than 50 cm away from any users.

Connect Power

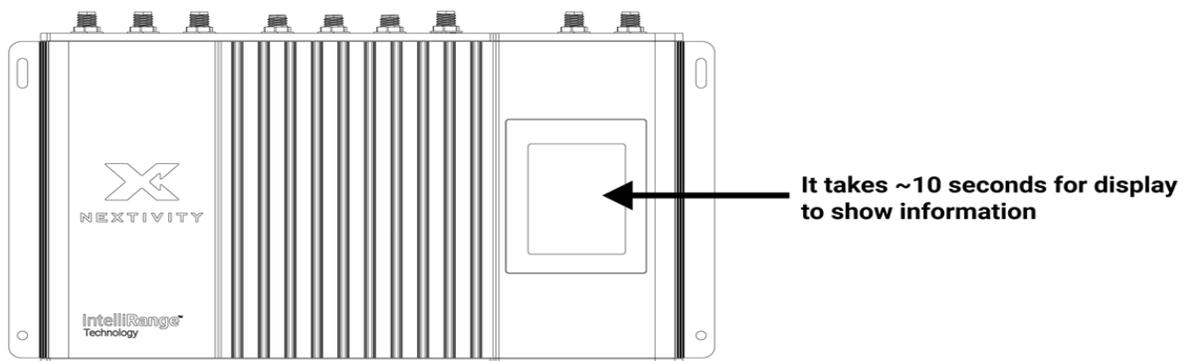
1. Plug the power cord into the labeled PWR port and plug the AC power adapter into a standard wall outlet.
 - **NOTE:** Use only the AC power adapter supplied with your MegaFi 2, as other power adapters may not have enough current to properly power the device.



- **NOTE:** The MegaFi 2 device can also be powered ON by PoE+ (Power over Ethernet+) via its WAN/LAN2 port. For more information about power to the MegaFi 2 device, refer to section 6.7 Power (Fixed and Mobile).

Boot Up

About 10 seconds after connecting to power, the display should show a startup screen with the Nextivity logo. Within a few minutes, an illuminated Internet icon on the display should indicate a successful connection to the Internet.



Refer to Section 3, *SHIELD MegaFi 2 LCD Display* on page 14 for further details on the display information.

2.3 Mobile Kit: Vehicle or Mobile Installation

-
- **NOTE:** Installing and activating a SHIELD MegaFi 2 router in your vehicle is straightforward for those familiar with installing other after-market antenna-connected systems. If you are planning a self-installation and are not a professional, it is recommended that you seek guidance from someone with hands-on experience with similar products. For help locating an expert installer, contact Nextivity support at support@nextivityinc.com.
-

Below are detailed steps for the MegaFi 2 Mobile kit.

Required Hardware and Tools

-
- **NOTE:** Nextivity does not provide screws or other hardware that may be needed to secure the MegaFi 2 and related components as installation varies widely depending on how and where in the vehicle the system is installed.
-

- Screwdriver or other hand/power tools as needed
- Hardware for installation

-
- **NOTE:** Before you start drilling holes or permanently attaching the MegaFi 2 to the vehicle, make sure the cables from the antenna will reach from the mounting point of the antenna to the location of the installed MegaFi 2, leaving enough cable length for stress relief before connecting to the SMA connectors. See more information in the section *Connect Antenna Cables to MegaFi 2*.
-

Mount the Antenna on the Roof

The MegaFi 2 uses the Panorama Dual Sharkfin style antenna. Click on the link to find more information on the antenna at <https://panorama-antennas.com/product/gpsxd4x-6-60-4x4-mimo-4g-5g-sharkfin-antenna/>.

1. Select a location for the antenna. For best performance it is highly recommended to locate the antenna:
 - A. At least 76 cm from all other antennas
 - B. Within 4.5 m of where you will mount the MegaFi 2 unit, so the connection cables can reach the MegaFi 2 unit in the vehicle
 - C. At least 30 cm from the edge of the roof
 - D. 50 cm or more from vehicle occupants for use of the MegaFi 2 device.
2. Mount the antenna per the instructions of the antenna manufacturer.

- **NOTE:** Please follow the detailed installation instructions for the Panorama Dual Sharkee antenna at <https://panorama-antennas.com/sw3-1025-installation-instructions-a4/>. Below are the installation highlights.
- A. Review the mounting requirements and select a proper mounting location.
- B. Prepare and drill a hole
- C. Fitting the antenna
 - 1) Prepare mounting surface. Drill hole etc. as per standard instructions.
 - 2) Remove nut, washer. Remove pad liner.
 - 3) Feed cables through hole.
 - 4) Firmly press down on antenna to affix to mounting surface, ensure that the seal skirt splays out into the surface.
 - 5) Assemble shakeproof washer and nut tighten to 5Nm.
 - 6) Check that the antenna is firmly secure to mounting surface and that sealing boot edges have splayed out into surface to form a seal.
- D. Route and appropriately terminate cables to the MegaFi 2 device as instructed in section *Connect Antenna Cables to MegaFi 2* (below).

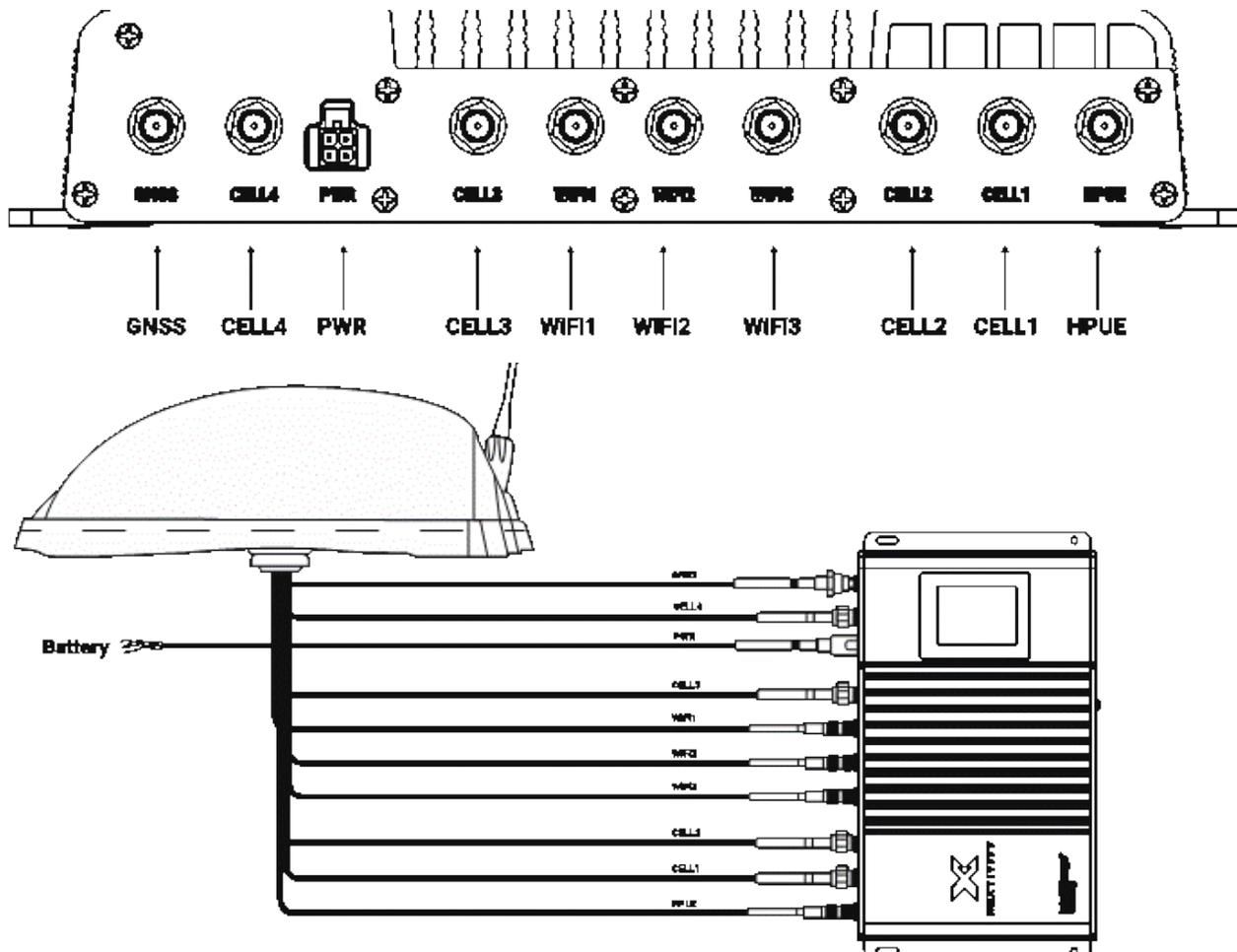
Install the SHIELD MegaFi 2 Unit Inside the Vehicle

1. Place the unit on a suitable flat surface within the vehicle, leaving clearance for cable and power connections. The location should be dry and as far away from openings as is reasonable and be within easy reach of the antenna cables.
 - **NOTE:** Leave at least a 5-cm space (air gap) open above the MegaFi 2 to ensure proper cooling and never place any other devices directly on the MegaFi 2.
2. Secure the unit with four screws appropriate for the material the MegaFi 2 is being mounted on.
 - **NOTE:** Installation on a metal plate will improve performance in very hot conditions.

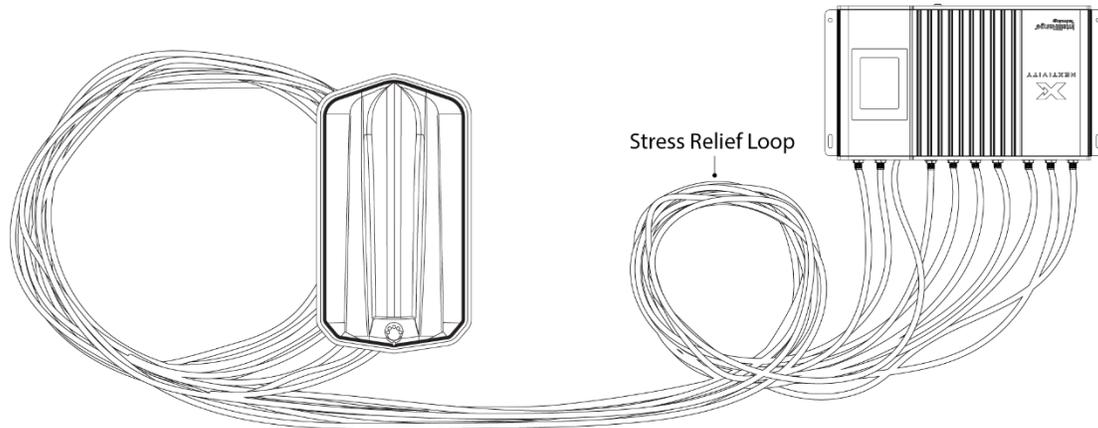
Connect Antenna Cables to MegaFi 2

Connect the mount antenna leads labeled **GNSS**, **WiFi**, and **HPUE** to the corresponding **GNSS**, **WiFi** and **HPUE** connectors on the device. Connect the **CELL1**, **CELL2**, **CELL3**, and **CELL4** antenna leads to the corresponding CELL connectors on the device. Please note, WiFi ports have a pin, while the HPUE and CELL ports do not. WiFi antenna leads do not have a pin, while Cellular antenna leads do have a pin. Connecting a Cellular antenna lead with a pin to a WiFi port with a pin will damage one or the other or both. If location data is desired, make sure the GPS antenna has an unobstructed view of the sky.

-
- **NOTE:** SMA connectors have a maximum torque of 0.34-0.56 NM. Over-torquing may damage the connectors and void warranty.
-



-
- **NOTE:** It is also recommended to add stress relief to the end of the antenna cables right before connecting them to the SMA connectors on the MegaFi 2 device. This is accomplished by making a small loop of the cabling right before connecting the cable ends to the device.
-

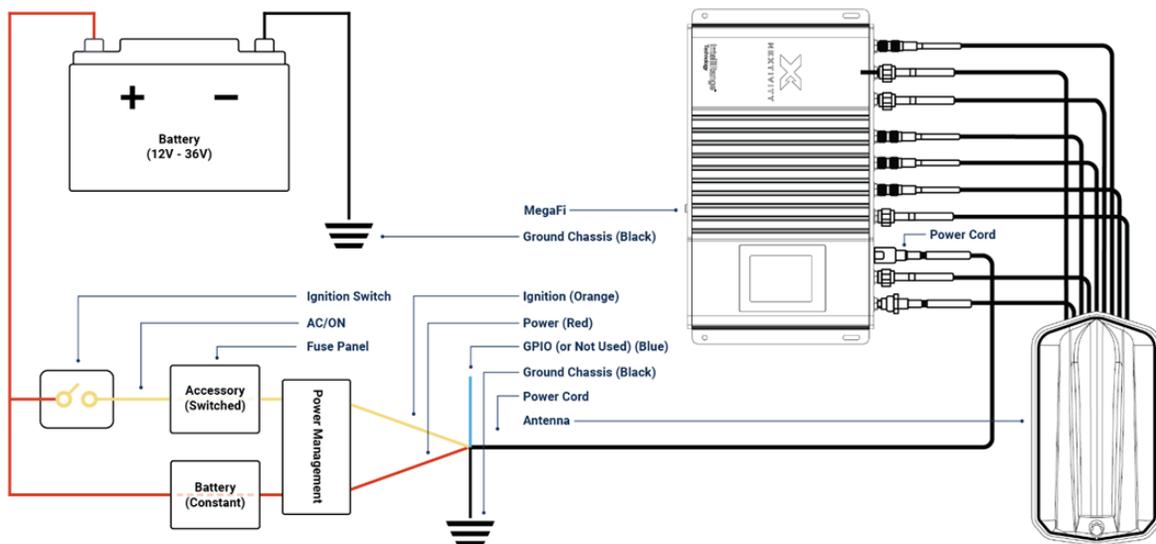


Connect the Power

1. Connect the DC power cable to your DC power source.

➤ **NOTE:** **Red** = + Positive; **Black** = - Negative; **Orange** = Ignition Sense; **Blue** = GPIO or Sleep Sense (not used in all applications). Recommended fuses: Ignition Sense (less than 1A), Positive (3A or more).

2. Connect the **DC power cable** to the port labeled **PWR** on the side of the device.



Boot Up

Start or power ON the vehicle. The LCD display will illuminate with device status and information. The system may take a few minutes to fully boot up. When the unit is successfully connected, the Internet icon will illuminate on the display.

Refer to Section 3 *SHIELD MegaFi 2 LCD Display* (p. 14) for further details on the display information.

3 | SHIELD MegaFi 2 LCD Display

After MegaFi 2 device powers ON, it will take the LCD display about 10 seconds to show the welcome screen. It will take the device about three to five minutes to fully boot up. The local management interface, Mission Control, MegaFi 2's Graphical User Interface (GUI), and an Internet connection will not be available during boot up. More information about Mission Control will be discussed in Section 4, *Log Into the MegaFi 2 - Mission Control* on page 18.

3.1 MegaFi 2 LCD Display - Status and Information

After the boot up process, the LCD Display will show the following status and information:

Indicator	Description
Signal Bars	1-5 bars lit based on signal strength available from the network
Network	4G or 5G
High Power	In High Power mode
Normal Power	Not in High Power mode
GNSS	GPS location is available
No GNSS	No GPS location available
Internet	Connected to WWAN or both a WWAN and WAN connection
No Internet	No WAN or WWAN connection available
Wi-Fi	Wi-Fi is enabled and ON
Wi-Fi Off	Wi-Fi is disabled and OFF
SIM Selection	P for Physical SIM, e for eSIM

The LCD screen will rotate between three (3) different pages every 15 seconds. The indicators and information listed above will consistently be displayed on all 3 different pages.

Other device information displayed on page 1:

- Mission Control version
- IP address to access Mission Control
- Username and password to access Mission Control
- Serial number
- MAC address

- IMEI



Device information displayed on page 2:

- QR code – Scan to connect to MegaFi 2 via WiFi



Device information displayed on page 3:

- SSID names and passwords for both 2.4G and 5G Wi-Fi
- Number of Wi-Fi users currently connected
- SIM phone number



SIM Card Missing:

- If there is no SIM card in the device, this message will be shown on the display



3.2 MegaFi 2 LCD Display – Overview of Settings

The LCD display screen will turn off after 600 seconds. The display screen can be turned on again by quickly pressing on the **DISPLAY** button located between the SIM card tray and the Ethernet ports.

Also, the LCD display screen is oriented to Portrait view but can be changed to Landscape view and the Detail Level is set to Full.

Below is a list of LCD settings that can be modified in Mission Control. For detailed information on making any changes to the LCD screen, refer to the SHIELD MegaFi 2 Software Manual at <https://nextivityinc.com/products/shield-megafi-2-hpue/> and scroll down to the About the Shield MegaFi 2 section and select the Specs and Resources tab.

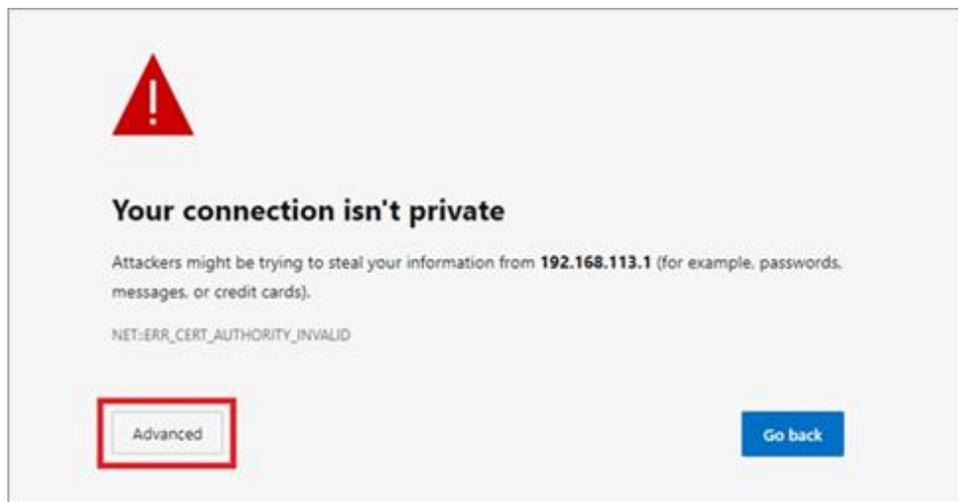
LCD Configuration	Settings
Screen Orientation	Portrait (default) or Landscape
Detail Level	Full (default) or Minimal
Turn off screen after (seconds)	600 (default), Always On, or custom setting between (-1 and 3600)
Switch screen information (seconds)	15 (default), or custom setting of value smaller or equal to 60
Show Mission Control Password on the Display	Disabled (default) or Enabled

4 | Log Into the MegaFi 2 - Mission Control

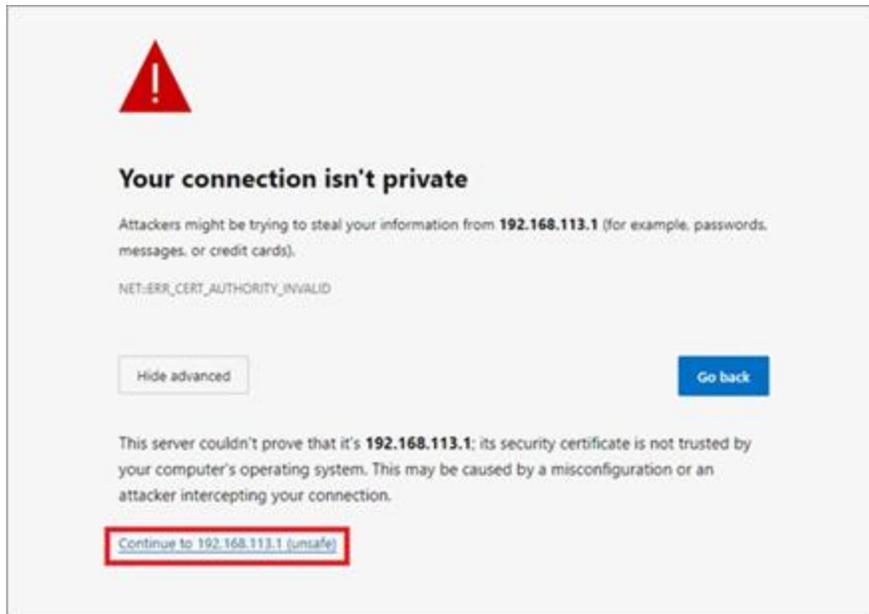
Mission Control is the built-in web interface that provides information about the SHIELD MegaFi 2 router and allows the user to configure settings to their preferences. This section describes how to log in to Mission Control.

4.1 Using the Mission Control Router Software

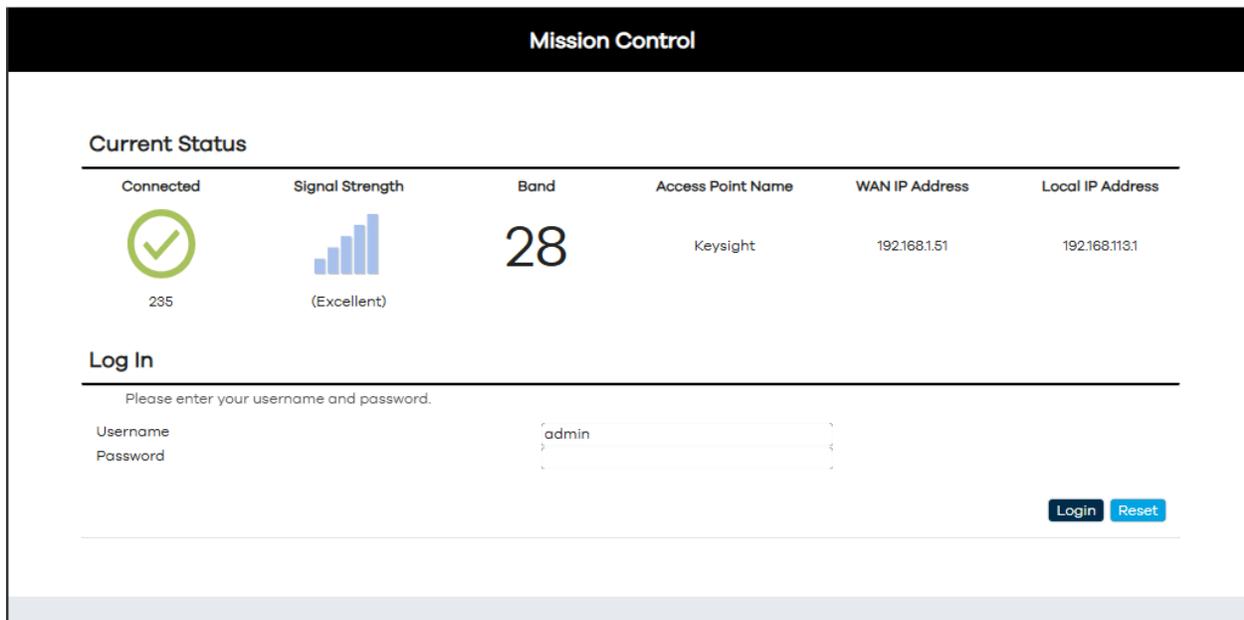
1. Connect an Ethernet cable between your computer and LAN1 port on the MegaFi 2.
2. Open a web browser to the following default LAN IP address: <https://192.168.113.1>
 - **NOTE:** Chrome seems to be the best browser to use for accessing the MegaFi 2 via Mission Control, but other browsers can be used.
3. The first time you try to connect to MegaFi 2, a couple of connection warnings will display as shown below. Accept the first connection warning by clicking on '**Advanced**'.
 - **NOTE:** These connection warnings are typical of web browsers looking after the user when attempting to log on to specific devices or websites. Since we are aware of what we are connecting to, we can proceed as instructed. After logging off from MegaFi 2 for some time, the user will encounter these warnings again when attempting to reconnect. When this happens, proceed as instructed.



4. Click on '**Continue to 192.168.113.1 (unsafe)**' link to proceed.



5. The MegaFi 2's Mission Control GUI login page will now be displayed.
 - A. Enter the default password as found on the bottom label of the MegaFi 2 or from the display.
 - **NOTE:** username always defaults to 'admin'.
 - B. Click 'Login' to proceed.



6. When logging in for the first time, the EULA (End User License Agreement) will be displayed.
 - A. Fill out the requested information and click **'Accept'** to continue.

End User Licence Agreement

Nextivity Inc. ("Nextivity")
End User License Agreement ("EULA")

Version Date: July 25, 2023

BY ACCEPTING THIS EULA, EITHER BY INDICATING YOUR ACCEPTANCE, BY EXECUTING A QUOTE OR ORDERING EQUIPMENT OR SERVICES DIRECTLY WITH US OR THROUGH AN APPROVED NEXTIVITY DISTRIBUTOR OR RESELLER (HOWEVER TITLED, REFERRED TO HEREIN AS AN "ORDER"), OR BY DOWNLOADING, INSTALLING AND/OR UTILIZING ANY OF THE SERVICES (DEFINED BELOW), YOU AGREE TO THE TERMS AND CONDITIONS OF THIS EULA. THIS EULA IS A LEGALLY BINDING CONTRACT BETWEEN YOU AND NEXTIVITY AND SETS FORTH THE TERMS THAT GOVERN THE LICENSES PROVIDED TO YOU HEREUNDER. IF YOU ARE ENTERING INTO THIS EULA ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO BIND SUCH ENTITY TO THIS EULA. ANY CHANGES, ADDITIONS OR DELETIONS BY YOU TO THIS EULA WILL NOT BE ACCEPTED AND WILL NOT BE A PART OF THIS EULA. IF YOU DO NOT AGREE TO THIS EULA, YOU MUST NOT DOWNLOAD, INSTALL, OR USE THE SERVICES.

This Nextivity End User License Agreement ("EULA") is between Nextivity (or "we" or "us") and the user ("User" or "you" or "your") of the Services, as defined below. This EULA applies to your use of:

- (1) the Nextivity equipment ("Equipment");
- (2) the Nextivity on-premises, installed software that initialize and enables the Equipment ("Installed Software");
- (3) the Nextivity cloud-based software that allows you to manage and configure your Equipment ("Cloud Software");
- (4) the written and visual materials Nextivity may provide to aid you in your use of the Equipment, Installed Software and Cloud Software ("Documentation"); and
- (5) any training or support services performed, either remotely or in person, by Nextivity ("Support"). The Installed Software and Cloud Software may be referred to together as the "Software." The Software, Equipment, Documentation and Support may be referred to collectively as the "Services." This EULA also incorporates any Equipment-specific terms that may apply to the Equipment you acquire ("Supplemental Terms").

Section 1. Using the Services

1.1 License and Right to Use. Nextivity grants you a non-exclusive, non-transferable, non-sublicensable, revocable (a) license to use the Installed Software, (b) right to use the Cloud Software, and (c) right to use the Documentation solely in connection with your use of the Software and Equipment, each as acquired from Nextivity or an approved reseller or distributor of Nextivity ("Approved Provider"), solely for your internal business purposes during the Usage Term (as defined in Section 1.6 below), subject to the terms of this EULA and the applicable Order (collectively, the "Usage Rights"). Nextivity reserves all rights, title, and interest in and to the Services, including all related intellectual property rights, subject to the limited rights expressly granted hereunder.

First Name

Last Name

Company (optional)

Phone (optional)

E-Mail

7. You will then be directed to update your password. Please update the password and Save.

NOTES:

- A factory reset restores the original default password. The password is only available from the printed label and on the LCD display.
- For further information regarding MegaFi 2 monitoring and configuration settings in Mission Control, refer to online self-help support, FAQs, documentation, at <https://nextivityinc.com/products/shield-megafi-2-hpue/> and scroll down to the About the Shield MegaFi 2 section.

5 | Cloud Access via the Nextivity MegaPortal

Once the MegaFi 2 has been set up, installed, and pre-configured to minimum requirements, it is time to register and connect the device to the Nextivity Cloud Portal, also known as MegaPortal.

5.1 Create Account and Sign In

1. To enable cloud management, open your computer browser window and enter <https://megaportal.nextivityinc.net>.
2. The MegaPortal sign-in dialog box will appear after bypassing the warning messages.



- A. If your organization already has an account, contact your organization's administrator to create a user account.
- B. If your organization does not yet have an account, contact support@nextivityinc.com to create an administrative account for your organization.
- C. To create the first administrative account for your organization, you'll need to provide the following information:
 - Organization Name
 - Your Name
 - Phone Number
 - Email
- D. If you already have an account, enter the email and the password for your account and click Sign In. If MFA has been enabled on your account, enter the MFA code sent to you to complete the log in process.

➔ **NOTE:** For further information regarding MegaPortal for MegaFi 2, please refer to the *MegaPortal Manual*.

6 | MegaFi 2 Specifications

6.1 Cellular

HPUE Support	PC1 operation on B28 (support for PC1 on n28 as network evolves)
5G Band Support	n1, n3, n8, n28, n40, n78 (support for n28 as network evolves)
LTE Band Support	B1, B3, B5, B7, B8, B18, B19, B25, B26, B28, B40
Peak D/L	Up to 1.0 Gbps (NSA), 1.0 Gbps
Peak U/L	Up to 0.55 Gbps (NSA), 0.90 Gbps
LTE Category	Cat 20
Approvals	
Carrier	
Compliance	RoHS

6.2 Host Interfaces

2 Gigabit RJ-45 Ethernet port	1 WAN & 1 LAN
SIM	4FF NanoSIM +e-SIM
6x SMA Antenna Connectors	1x Band 28 HPUE, 4x Cellular, 1x GNSS
3x RP-SMA Antenna Connectors	Dual Band 802.11ax Wi-Fi 6

6.3 Security

AAA	802.1x/Radius authentication with Wi-Fi and Ethernet
Firewall	Port forwarding and filtering
WLAN Encryption	WPA2/WPA3 Personal and Enterprise
WLAN MAC	Address filtering

6.4 Wi-Fi

Band Support	Dual Band 2.4/5 GHz 2x2 MIMO 802.11 b/g/n/ac/ax
---------------------	---

Maximum Connected Users (Recommended)	256 clients
--	-------------

6.5 Satellite Navigation (GNSS)

Dedicated Multi-Band and Multi-Channel GNSS Receiver Supporting	GPS
Sensitivity	-162 dBm
Reports (Update Rate 1Hz)	NMEA, TAIP (PPS)
Reliable Store and Forward via Serial	UDP

6.6 Environmental

Operating Temperature (°C (°F))	-30 to +65 (-22 to +149)
Storage Temperature (°C (°F))	-40 to +90 (-40 to +194)
Operating Humidity	(Non-Condensing) 0 to 95%
Shock, Vibration, Thermal Shock	MIL-STD-810G
Road Vehicles - Electrical Test	ISO-7637-2
Ingress Protection	IP-54
Material Flammability	UL94
Operating Altitude	Maximum altitude: 10,000 feet (3,048 meters) above sea level

6.7 Power (Fixed and Mobile)

Input/Operating Voltage	9 to 36 VDC, device accepts PoE+ (802.3at) on WAN/LAN2 port only
Power Consumption	Standby: 60 mW, (MCU only, 2.4W (router mode, no RF transmission), Nominal 19.8W, Absolute Max, 22.2W)
Built-in protection against voltage transients including VDC engine cranking	
Ignition Sense with time delay shutdown	

6.8 Network and Routing

Custom APN	
Network Address Translation (NAT)	
LAN Segmentation	
WAN/LAN Connection Policy Management	
WAN Monitors	Connection Failure Recovery
Configurable MTU Size	
Multiple LAN Support	
Customize Transmission Buffer Size	
Static Routing	
WAN Ethernet	

6.9 Supported Warranty

2-year Standard Warranty; Optional Warranty up to 5 years. Includes Unrestricted Device Software Upgrades	For more information contact support@nextivityinc.com .
--	---

6.10 Mechanical and Packaging

Weight	1165 g
---------------	--------

6.11 Antennas

Fixed	Paddle antennas in box including, HPUE, Cellular, & Wi-Fi
Mobile	Vehicle mount antenna in box, including HPUE, Cellular, GPS & Wi-Fi.

6.12 Dimensions

