

SHIELD MegaFi

The Highest Powered Mobile Router for Critical Communications

MegaFi is the highest-powered mobile router available. It can boost cellular transmission strength by up to 6x, so users can maintain critical connectivity throughout more of their areas of operation than ever before.

Features and benefits include:

- FirstNet Trusted™ device
- Significantly increase coverage in rural and dense urban areas
- Five port ethernet router
- GPS and location base services
- Wi-Fi hotspot
- Intuitive graphical user interface for easy configuration
- Internet routing capability



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The MegaFi is an all in one, cloud-supported, and SD-WAN capable mobile, Wi-Fi router. This certified FirstNet Trusted™ device works on AT&T and FirstNet Band 14 and is available in both a Fixed and Mobile configuration. The box includes the antenna and power cables based on your configuration, and the MegaFi router has an integrated, ruggedized mount for easy installation.

Hardware Specifications

Cellular

LTE Category	Cat 12 modem
Peak D/L	Up to 600 Mbps
Peak U/L	Up to 150 Mbps
4G LTE	1900(B2), AWS(B4), 850(B5), 700(B12), 700(B14), 700(B17), 700(B29), 2300(B30), 1700(B66)
Approvals	FCC, PTCRB, Wi-Fi Alliance
Carrier	AT&T/ FirstNet
Compliance	RoHS

Host Interfaces

5 Gigabit RJ-45 Ethernet ports	1 WAN & 4 LAN
1 SIM Slot	3FF MicroSIM
4 SMA antenna connectors	1 Band 14, 1 primary cellular, 1 diversity cellular, 1 GPS
2 RP-SMA antenna connectors	Dual band Wi-Fi

Security

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

Wi-Fi

Band Support	Dual Band 2.4/5 GHz 2x2 MIMO 802.11 a/b/g/n/ac
Recommended Maximum Users	32 clients
Security Protocols	WPA2 (PSK, EAP), WPA3 (EAP, SEA)

Satellite Navigation (GNSS)

Dedicated multi-band and multi-channel GNSS Receiver supporting	GPS, GLONASS, BeiDou, Galileo
Sensitivity	-162 dBm
Reports (Update Rate 1Hz)	NMEA, TAIP (PPS)
Reliable Store and Forward via serial	TCP or UDP

Input/Output

Vehicular ignition sense line input	0-12 VDC
Digital input line	0-5 VDC

Environmental

Operating Temperature (°F (°C))	-30 to +65 (-22 to +149)
Storage Temperature (°F (°C))	-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

Power

Input/Operating Voltage	9 to 36 VDC
Power modes	ON 18W Typical (1.5A @12V); Standby 120mW (10mA@12V)
Built-in protection against voltage transients including VDC engine cranking	
Ignition Sense with time delay shutdown	

Network and Routing

Custom APN	Static IP(s) provided by AT&T/FirstNet
Network Address Translation (NAT)	
LAN Segmentation	
WAN/LAN Connection Policy Management	
QoS	Application/ Traffic Priority Queuing
WAN Monitors	Connection Failure Recovery
Configurable MTU size	Adjust for FirstNet WWAN and VPN specific requirements
Multiple LAN Support	
Customize transmission buffer size	
Static Routing	
WAN Ethernet	

Reliability

MTBF	>10 years
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Support and Warranty

2-year standard warranty; Optional warranty up to 5 years. Includes unrestricted device software upgrades	For more information contact support@cel-fi.com
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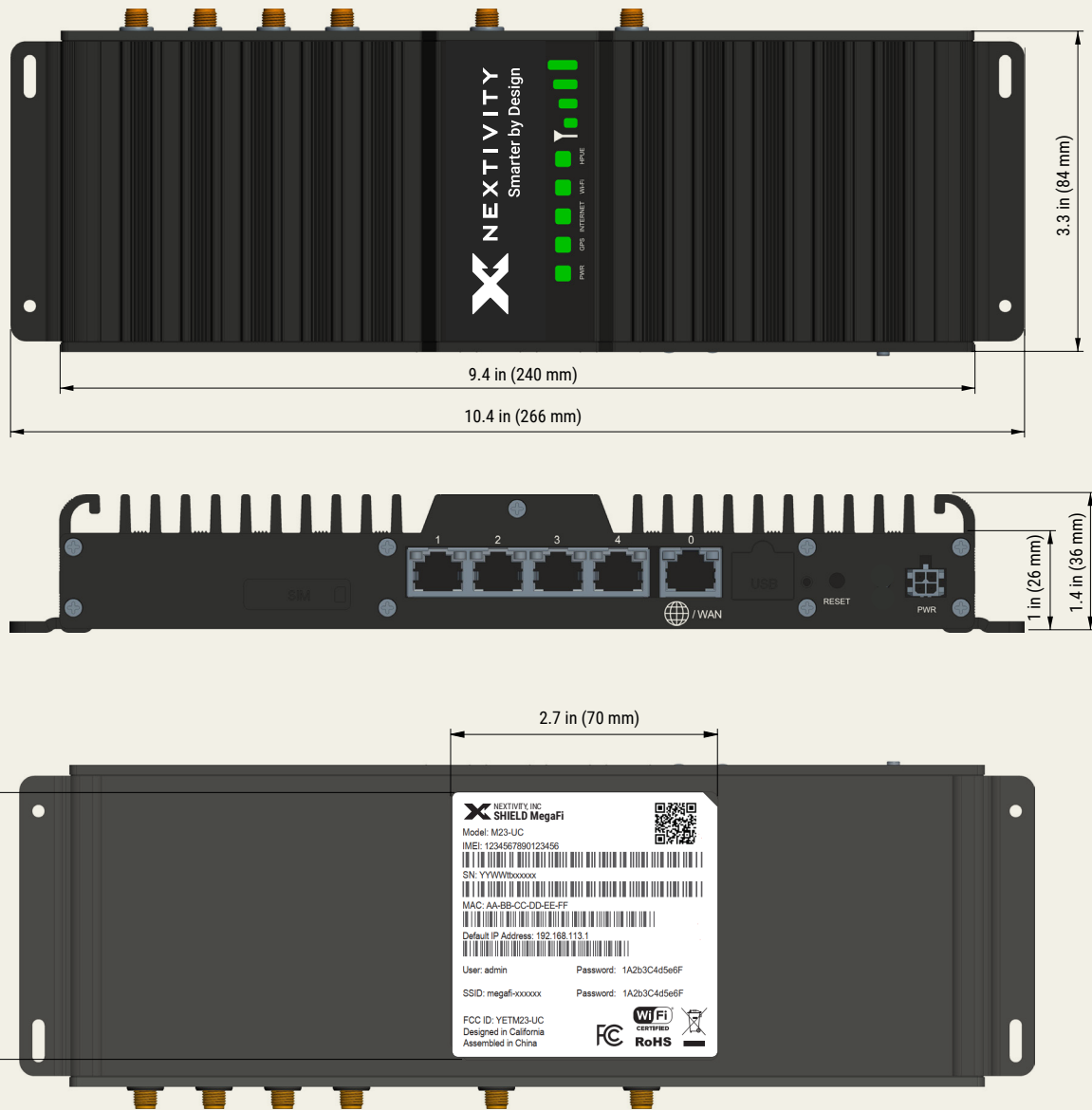
Mechanical & Packaging

Weight	1lb 14 oz
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Antennas

Fixed	Paddle antennas in box including GPS & Wi-Fi.
Mobile	Vehicle mount antenna in box includes 6-in-1 antenna including 3 LTE, 2 Wi-Fi, 1 GPS.

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Ordering Guide

Order from your current seller of FirstNet Built with AT&T products. If you are not sure who to contact, let us know by filling out a form at [Nextivityinc.com/support](https://nextivityinc.com/support) and we will put you in touch with the right person.