Airgain)))

MegaFi 2
High Power 5G Mobile Router - B28 Version

MegaFi 2 is an integrated high power 5G HPUE multi-port router and Wi-Fi hotspot device. It is the first device that combines 5G support with HPUE performance – 6x the power of regular devices. With this power, MegaFi 2 provides users and enterprises with reliable broadband connectivity, even in the most challenging environments. MegaFi 2 extends the range of user devices into remote areas and deep inside structures where standard signals won't reach. The device features a graphical display for monitoring performance and system status.

MegaFi 2

Features and benefits include:
• Support for 5G and NSA, and LTE Cat 20
• Power Class 1 device on LTE Band 28, Power Class 3 on all other Bands
• Best in range, coverage, penetration, and capacity to provide maximum connection availability
• Cellular data rates up to 1.0 Gbps DL/0.55 Gbps UL (NSA) and 1.0 Gbps DL / 0.90 Gbps UL
• GPS and location services
• Wi-Fi hotspot
• Intuitive graphical user interface for status indicators
• Dual-SIM through future software update

HARDWARE SPECIFICATIONS

Cellular

HPUE Support	PC1 operation on B28
5G Band Support	n1, n3, n8, n28, n40, n78
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
Compliance	RoHS

Host Interfaces

2 Gigabit RJ-45 Ethernet Ports	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

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 b/g/n/ac/ax
Maximum Connected Users (Recommended)	256 clients
Security Protocols	WPA2/WPA3 Personal and Enterprise

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

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

Power

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, 22.2 W)
Built-in Protection Against Voltage Transients, including VDC Engine Cranking	
Ignition Sense with Time Delay Shutdown	

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	

Support and Warranty

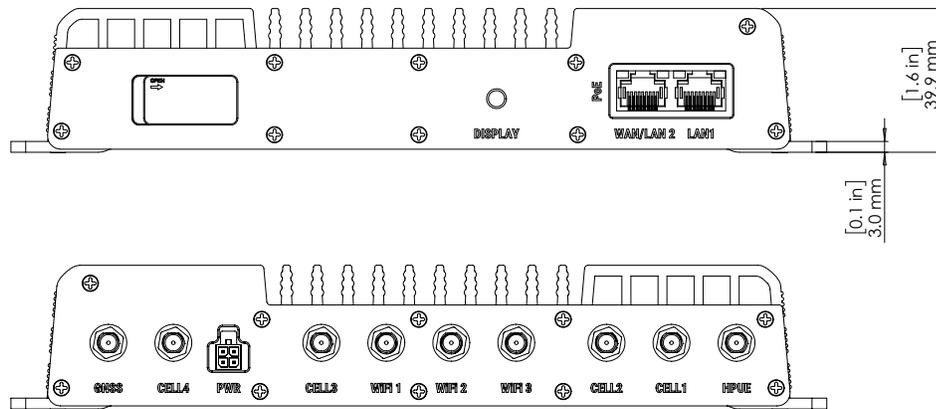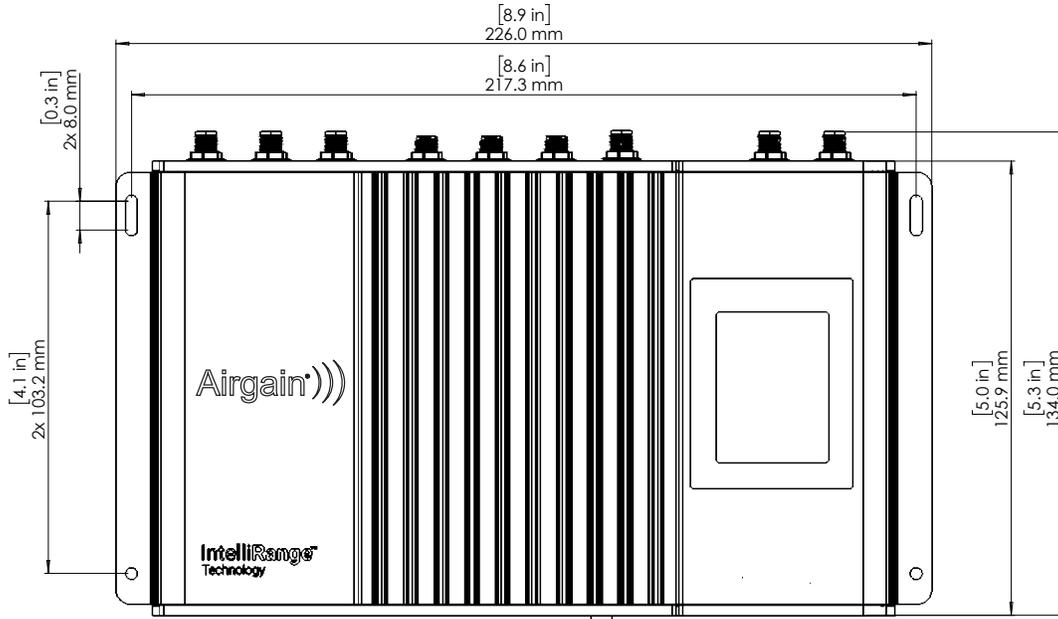|	
2-year Standard Warranty; Optional Warranty up to 5 Years. Includes Unrestricted Device Software Upgrades.	For more information contact connectivity.support@airgain.com

Mechanical & Packaging

Weight	2lb 9oz (1165g)

Antennas

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

MegaFi 2

[8.9 in]
226.0 mm

[8.6 in]
217.3 mm

[0.3 in]
2x 8.0 mm

[4.1 in]
2x 103.2 mm

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IntelliRange™
Technology

[5.0 in]
125.9 mm

[5.3 in]
134.0 mm

OPEN

PoE

DISPLAY

WAN/LAN 2   LAN1

[1.6 in]
39.9 mm

[0.1 in]
3.0 mm

GNSS   CELL4   PWR   CELL3   WIFI 1   WIFI 2   WIFI 3   CELL2   CELL1   HPUE

ORDERING GUIDE

Order from your current seller of HPUE products. If you are not sure who to contact, email sales@airgain.com, and we will put you in touch with the right person.

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