



AirgainConnect® AC-HPUE™ Multi-Band High Power LTE Antenna-Modem

Whether you are a First Responder or in a public safety support role, the AirgainConnect AC-HPUE provides a quick and easy way to upgrade to first responder frequencies. The AC-HPUE transmits at up to 10x the power of conventional cellular when combined with Airgain's patented technology eliminating the lossy cables between the modem and the antenna.

FEATURES

- High Power User Equipment (HPUE)
- Maximum transmit power allowable (Power Class 1)
- Rugged design
- Made in North America
- Optional Wi-Fi and GNSS antennas

ADVANTAGES

- Innovative design eliminates cable loss, increasing transmit power to the antenna
- Rooftop location for the modem stays cooler than a vehicle trunk, important when transmitting at high power
- Extends coverage in typical low signal environments

PART NUMBER(S)

BLACK	WHITE	DESCRIPTION
AC-HPUE-C3W2G-Q-S-BL-5M	AC-HPUE-C3W2G-Q-S-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables and flat gasket)
AC-HPUE-C3W2G-Q-S-I2C-BL-5M	AC-HPUE-C3W2G-Q-S-I2C-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables, flat gasket, and FAKRA connector)
AC-HPUE-C3-Q-S-BL-5M	AC-HPUE-C3-Q-S-WH-5M	3 x LTE (includes 5 m/16.4 ft cables and flat gasket)

AC-HPUE-C3W2G-Q-F15021-BL-5M	AC-HPUE-C3W2G-Q-F15021-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables and modified gasket for 2021+ Ford F-150, F-250 and F-350)
AC-HPUE-C3W2G-Q-F15021-I2C-BL-5M	AC-HPUE-C3W2G-Q-F15021-I2C-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables, modified gasket for 2021+ Ford F-150, F-250 and F-350 and FAKRA connector)
AC-HPUE-C3-Q-F15021-BL-5M	AC-HPUE-C3-Q-F15021-WH-5M	3 x LTE (includes 5 m/16.4 ft cables and modified gasket for 2021+ Ford F-150, F-250 and F-350)
AC-HPUE-C3W2G-Q-F-BL-5M	AC-HPUE-C3W2G-Q-F-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables and modified gasket for 2020+ Ford Interceptor)
AC-HPUE-C3W2G-Q-F-I2C-BL-5M	AC-HPUE-C3W2G-Q-F-I2C-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables, modified gasket for 2020+ Ford Interceptor, and FAKRA connector)
AC-HPUE-C3-Q-F-BL-5M	AC-HPUE-C3-Q-F-WH-5M	3 x LTE (includes 5 m/16.4 ft cables and modified gasket for 2020+ Ford Interceptor)
AC-HPUE-C3W2G-Q-FEXPD18-BL-5M	AC-HPUE-C3W2G-Q-FEXPD18-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables and modified gasket for 2018+ Ford Expedition)
AC-HPUE-C3W2G-Q-FEXPD18-I2C-BL-5M	AC-HPUE-C3W2G-Q-FEXPD18-I2C-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables, modified gasket for 2018+ Ford Expedition, and FAKRA connector)
AC-HPUE-C3-Q-FEXPD18-BL-5M	AC-HPUE-C3-Q-FEXPD18-WH-5M	3 x LTE (includes 5 m/16.4 ft cables and modified gasket for 2018+ Ford Expedition)
AC-HPUE-C3W2G-Q-F19-BL-5M	AC-HPUE-C3W2G-Q-F19-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables and modified gasket for 2016-2019 Ford Interceptor)
AC-HPUE-C3W2G-Q-F19-I2C-BL-5M	AC-HPUE-C3W2G-Q-F19-I2C-WH-5M	3 x LTE, 2 x Wi-Fi, 1 x GNSS (includes 5 m/16.4 ft cables, modified gasket for 2016-2019 Ford Interceptor, and FAKRA connector)
AC-HPUE-C3-Q-F19-BL-5M	AC-HPUE-C3-Q-F19-WH-5M	3 x LTE (includes 5 m/16.4 ft cables and modified gasket for 2016-2019 Ford Interceptor)

TECHNICAL SPECIFICATIONS

ELECTRICAL

Ethernet Injector + 12 VDC

Ignition sense

Power conditioning built to automotive standard ISO 7637-2

LTE MODEM

Cat 12, 3GPP Release 12 +

Band 14 output power: 1.25W (Class 1) Element 1

Bands 2, 4, 5, 12, 17, 29, 30, 66 output power: 200mW (Class 3) Elements 2 & 3

Transmit bandwidth: 1.4 MHz through 20 MHz

WCDMA capabilities on bands 2, 4, 5

Wi-Fi ANTENNAS

IEEE 802.11 a/b/g/n/ac/ax Wi-Fi 6, 6E, 7

Frequency Range	Elements 4 & 5	SMA: 2.4/4.9-7.1 GHz, FAKRA: 2.4/4.9-6.0 GHz
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GNSS

Ceramic Patch Antenna Specification	Bandwidth	1561-1603 MHz
	Gain@Zenith	2.5 dBi
	Polarization	R.H.C.P.
	Axial Ratio	3.0 dB Typ.

LNA Specification	Noise Figure	1.2 dB
	Gain	28 dBi
	Voltage	3.3V~5.6V
	Current	9.6±1mA@3.3V

MOUNTING DATA

Dimensions	Height	3.27" (83.1mm)
	Width	5.79" (147.0mm)
	Length	7.95" (201.9mm)
Weight	1.7 lbs (771 g)	
Mount	Bolt Mount	
Color	White (WH), Black (BL)	

SIM CARD

3FF Micro SIM card support