

AW12-HP™ High Power LTE Module™ for First Responders

Best in Range, Coverage, Penetration
and Capacity



Fully Certified for FirstNet® Applications

Assured Wireless Corporation, the leader in High Power User Equipment (HPUE) innovation, is pleased to introduce the AWC12-HP LTE Modem Module.

The AW12-HP was architected for the specific use cases of first responders and designed with patented wireless connectivity technology to provide significantly enhanced LTE range, coverage and data speeds. This modem is designed to meet all 3GPP and FCC requirements as a Power Class 1 (HPUE) device on LTE Band 14 and Power Class 3 (standard power) on other bands. It provides CAT12 data rates up to 600 Mb/s download and 150 Mb/s upload.

The AWC12 form factor, power efficiency and thermal characteristics have been optimized for use in OEM devices. It operates from +5 to +12 Vdc and includes USB and SIM signaling. This first-of-its-kind module provides high power LTE communications for greater range, higher data rates and better in-building coverage. Using our advanced technology, the effective transmitted power is 6 times higher on FirstNet than conventional portable LTE user equipment. It extends the range of the LTE coverage by 80% relative to standard-power LTE devices ensuring reliable, mission-critical coverage in the most difficult conditions such as basements, parking garages, urban canyons and cell-edge coverage areas. The AW12-HP from Assured Wireless will meet or exceed the critical requirements of public safety agencies and emergency services organizations. It is ideal for next-generation OEM products that serve mission critical first responder applications.



Enhanced Features

Certifications	FCC, PTCRB, 3GPP, and AT&T FirstNet Ready
MIMO	2x2, 4x2
Firmware upgrade	Delta firmware over-the-air
SIM card detection	(U)SIM, supports dual SIM through m.2 interface

LTE

3GPP release	12+
Output power for Band 14	1.25W (Power Class 1)
Output power for Bands 2, 4, 5, 12, (17), 29, 30, and 66	200mW (Power Class 3)
Transmit bandwidth	1.4MHz through 20MHz
WCDMA fallback	Bands 2, 4, and 5

Location Aware

Positioning	GNSS 72-channel, GPS, GLONASS, Galileo
Sensitivity	-167 dBm
Antenna support	active GNSS

Connections

Proprietary	50-pin connector to flex cable
NGFF m.2	via m.2 adapter from flex cable
Power	2-pin Molex, +5 to +12Vdc
RF (cellular, GNSS)	3 u.FL (3 cellular), 1 SMA (GPS)

Environmental and Physical

Operating temperature	-30°C to +65°C (-22°F to +149°F)
Dimensions	3.23" x 2.83" x 0.39" (82mm x 72mm x 10mm)