

AW12™ High Power USB Modem™ for Mission Critical Communications

Best in Range, Coverage,
Penetration and Capacity



Fully Certified for FirstNet® Applications

Assured Wireless Corporation, the leader in HPUE (High Power User Equipment) technology is pleased to introduce the AW12 High Power USB Modem. It utilizes patented HPUE technology to provide significantly enhanced LTE range, coverage, and data speeds.

Our USB 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 AW12 is FirstNet Ready certified.

The AW12 form factor, power efficiency and thermal characteristics have been optimized for use in OEM devices. It operates from 5-12 Vdc and includes a USB interface.

The AW12 provides high power HPUE LTE communications for greater range, higher data rates, and better in-building coverage. Using our advanced patented technology, effective transmitted power is six times greater on FirstNet than any similar device on any other network, extending the range of the LTE coverage by 80% relative to standard power LTE devices ensuring reliable, mission-critical coverage in the most challenging conditions such as cell-edge, basements, parking garages, and urban canyons.

The AW12 provides better connectivity than any other existing broadband LTE device meeting your critical mission requirements.

Enhanced Features

Certifications	FCC, PTCRB, 3GPP, and AT&T FirstNet Ready
MIMO	2x2, 4x2
Firmware upgrade	Delta firmware over-the-air
Power	+5 to +12Vdc nominal power

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

SIM	3FF Micro SIM card support
USB	USB-C
RF connector	4 SMA (3 cellular, 1 GPS)

Environmental and Physical

Operating temperature	-30°C to +65°C (-22°F to +149°F)
Dimensions	4.33" x 3.23" x 1.26" (110mm x 82mm x 32mm)
Protection	IP68 water and dust protection
Shock and vibration	MIL-STD-810H: shock and vibration



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