Atom Prototyping Module

The Helium Atom is the heart of the connectivity solution. EU Model coming soon, contact us to be notified.

Product Details

The Helium Atom Prototyping Module is the prototyping version of our secure, low-power, dual-band wireless module. The pin layout is compatible with many existing embedded devices, including Raspberry Pi, Arduino, and mbed. Some embedded devices some may require an additional adapter, contact us at human@helium.com if you have any questions before purchasing.

The Atom is the only dual-band, long range, low-power, hardware-secured IEEE-standards compliant module available today. Each Atom has a uniquely provisioned hardware root of trust to help ensure that you can always trust the device and its data to be authentic at all times.

Atom devices connect to the nearest Element out of the box using Helium's wireless technology that allows devices to communicate long distances with little interference and requiring no device-level configuration.

Technical Specifications

Networking Standards	IEEE 802.15.4

Wireless Connectivity	802.15.4 IEEE Standard on dual-band radios
	
	    915 MHz & 2.4 GHz (US)
	    868 MHz & 2.4GHz (EU)

Security	Hardware-based encryption, authentication, and authorization
Environmental Range	Operating Temperature -40° to 185°F (-40° to 85°C)
Product Dimensions	Length: 1.06" (27mm) Width: 1.1" (28mm)
Certifications	FCC ID: 2ADMK-1 IC ID: 12590A-1
Voltage Range	2.0 to 3.6V (3.3V typical; 2.4V recommended minimum for full TX power at 915MHz)