



Element Access Point (Cellular)

The Helium Element is the bridge between Atoms and your cloud platform.

Product Details

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. Each Element can support thousands of Atom devices. This means you may only need one Element to cover an entire office building, two for a manufacturing facility, or three for a multi-acre farm.

The Element wirelessly connects to the Helium Routing Infrastructure anywhere there is cellular service, allowing for zero-configuration deployment for various applications including fleet, agricultural, or manufacturing. Data is securely routed to any cloud platform of your choice.

Technical Specifications

Networking Standards	IEEE 802.15.4
Computing Platform	AM335x 1GHz ARM® Cortex-A8 Processor 512MB DDR3 RAM 4GB 8-bit eMMC on-board flash storage
Typical operating range	4500 sq ft or several miles within line-of-sight
Wireless Connectivity	802.15.4 IEEE Standard on dual-band radios 915MHz & 2.4GHz (US) 868MHz & 2.4GHz (EU)
Security	Hardware-based encryption, authentication, and authorization
Cellular	LTE/4G Support - US Only EU – Coming Soon
Electrical Requirements	5V DC 1A
Environmental Range	Operating Temperature -40° to 185°F (-40° to 85°C)
Product Dimensions	Width: 4.13" (105mm) Depth: 4.13" (105mm) Height: 1.57" (40mm)