



Features and Benefits

- External IP67 rated 4G LTE Base Station
- Simple setup via the integrated web interface
- Supports up to 64 active users
- Runs standalone or as part of larger network
- Integrated GPS
- Low Size, Weight & Power
- Optional Embedded EPC

Cellular Base Station

The Cubic Cellular Base Station is a rugged, externally rated 4G LTE Base Station with optional integrated Core Network that provides cellular connectivity to hard to reach places.

Suitable for use in a wide range of industries including first responder, rail, utilities, manufacturing, and defense. The Base Station can be used as a stand-alone LTE network or to backhaul voice and data traffic to larger networks.

Capable of serving up to 64 active users at a download data rate of up to 150Mb/s, the Base Station delivers high speed, reliable, and secure 4G LTE connectivity for distances up to 9 miles.

The power-efficient IP67 rated Base Station can be powered by renewable power sources such as solar and wind, making it ideal for providing cellular connectivity to locations with little or no power infrastructure.

The Base Station supports a wide range of cellular network bands including non-standard 3GPP frequencies for private LTE Networks.



Specifications

4G LTE Cellular	
Version	LTE R9/10 feature sets
Supported LTE Bands	B1, B3, B4, B5, B28, B40 (other bands available on request)
LTE Channel Size (MHz)	5, 10, 15, 20
Duplex Modes	TDD or FDD
Max TX Power	2 x 30 dBm
Max Range Line of Sight	Up to 15 km / 9 miles
Networking	1 GbE
3GPP Compliance	R9

Evolved Packet Core Features	
PS Data	
Third-party HSS Integration, using Diameter	
Optional Internal HSS with HSS Synchronization	
Intra-MME Handover	
Multiple eNodeBs	

Physical Specifications	
Mast Mount Variant	
Size	200mm x 170mm x 80mm 7.8in x 6.7in x 3.1in
Weight	1.7 kg / 3.7 lbs
Drone Mount Variant	
Size	200mm x 170mm x 45mm 7.8in x 6.7in x 1.8in
Weight	1 kg / 2.20 lbs

Power Specifications	
Power Input	POE
Power Consumption	35W typical Including embedded EPC

Environmental Specifications	
Operating Temperature Range	-20°C to +50°C

Accreditations	
Ingress Protection	IP67
EMC	Designed to meet IEC 301 489-1, 17, 50, 52
Safety	IEC62368-1

Warranty	
2-Year Cubic Hardware Warranty included as standard.	

Product Name	Product Description
M3C-BST-B281W	M3C LTE Base Station, Band 28, FDD, 1W
M3C-BST-B051W	M3C LTE Base Station, Band 05, FDD, 1W
M3C-BST-B401W	M3C LTE Base Station, Band 40, TDD, 1W
M3C-BST-B031W	M3C LTE Base Station, Band 03, FDD, 1W
M3C-BST-B011W	M3C LTE Base Station, Band 01, FDD, 1W
M3C-BST-B041W	M3C LTE Base Station, Band 04, FDD, 1W
M3C-BST-B281W-EPC	M3C LTE Base Station, Band 28, FDD, 1W with Embedded EPC
M3C-BST-B051W-EPC	M3C LTE Base Station, Band 05, FDD, 1W with Embedded EPC
M3C-BST-B401W-EPC	M3C LTE Base Station, Band 40, TDD, 1W with Embedded EPC
M3C-BST-B031W-EPC	M3C LTE Base Station, Band 03, FDD, 1W with Embedded EPC
M3C-BST-B011W-EPC	M3C LTE Base Station, Band 01, FDD, 1W with Embedded EPC
M3C-BST-B041W-EPC	M3C LTE Base Station, Band 04, FDD, 1W with Embedded EPC

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