

Mobile Wireless Solution

ECHO Base Station & ECHO M5 Vehicle-Mountable, Wireless Roaming Data Station

SILVERNET

Version 1.1

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Product Overview

The ECHO M5 is a specially designed vehicle-mountable wireless client/station, featuring enhanced technology for mobile data applications. SilverNets zero sense roaming algorithms enable the ECHO M5 to connect to the the ECHO BS seamlessly for mobile data transmission, whilst keeping zero packet loss and smooth roaming across the system.

Ideal applications for this solution include transportation, warehousing, mining and surveillance.

Features

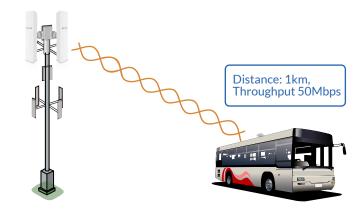
Waterproof

- Magnetic base mounting system
- Ruggedised anti-wobble design



Powerful & Sensitive

- Omni 7dBi High gain antenna
- Up to 27dBm tx power
- Up to -98dBm rx sensitivity
- TDMA compatible works well with ECHO BS Base station



Zero Sense Roaming

- Zero packet loss while roaming
- Ideal for mobility video streaming



Features and Benefits



SIL-ECHO-BS Multi-Point Base Station

- Compliant with 5GHz 802.11n/a, speed up to 300Mbps
- TDMA greatly Improves the network scalability in throughput and latency
- 16dBi dual-polarised 120° sector antenna to expand wirelesse coverage
- Optimised output transmission power & receive sensitivity.
- Easy deployment and adjustment with the provided mounting kits
- Passive PoE(24vdc)
- Outdoor weather-proof housing
- Lightning protection as standard



SIL-ECHO-M5 Roaming Data Station

- Compliant with 802.11/n/a, speed up to 300Mbps
- Zero sense roaming to ensure smooth handover between multiple Base Stations
- Advanced parameter settings for different types of roaming environments
- 7dBi dual-polarised 360° omni antenna
- Optimised output transmission power & receive sensitivity.
- Easy deployment Magnabase mounting for vehicles
- Passive PoE (24vdc)
- Outdoor weather-proof housing
- Lightning protection as standard













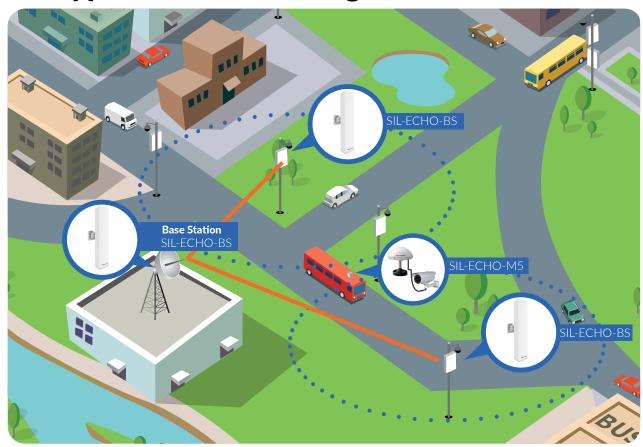








Typical Network Diagram



SIL-ECHO-BS as a Base Station in PtMP & SIL-ECHO-M5 fitted to mobile vehicles

Specifications





Radio	SIL-ECHO-BS	SIL-ECHO-M5
Standards Frequency 5GHz speed 5Ghz MIMO	802.11a/n 5GHz 300Mbps 2*2	802.11a/n 5GHz 300Mbps 2*2
Tx Power Rx Sensitivity	27dBm -74dBm@300Mbps -78dBm@54Mbps -98dBm@1Mbps	27dBm -74dBm@300Mbps -78dBm@54Mbps -98dBm@1Mbps
Antenna		
Antenna Gain Beamwidth	16dBi H: 120°, V: 8°	7dBi H: 360°, V: 8°
Physical Parameters		
Dimensions Weight Enclosure ESD Protection Lightning Protection Working Temp Storage Temp Working Humidity	395 x 100 x 90mm 0.77kg Weatherproof Plastic 16kV 8kV, GND Terminal -40 to 70°C -40 to 85°C 10% to 95% non-condensing	178 diameter x 157mm 1.23kg Weatherproof Plastic 16kV 2kV -40 to 70°C -40 to 85°C 10% to 95% non-condensing
Power		
PoE Consumption	24VDC 6W	24VDC 6W
Security		
Firewall Encryption	Yes WPA/WPA2-PSK (AES/TKIP)	Yes WPA/WPA2-PSK (AES/TKIP)
Interfaces		
LAN Ports	10/100/1000 BASE-T (RJ45)	10/100/1000 BASE-T (RJ45)
LED		
LED Lights	Power, LAN, WLAN and RSSI	Power, LAN, WLAN and RSSI
Warranty - 1 year		
Extendable to 2 Year	Yes	Yes
Pack Contents		
	Radio PoE PSU Mouting Bracket Steel Strap	Radio PoE PSU Magnabase Mounting Kit

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