

SILVERNET

ECHO Mobility Systems



Mobile Wireless Solution

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

SILVERNET

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Version 1.1

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

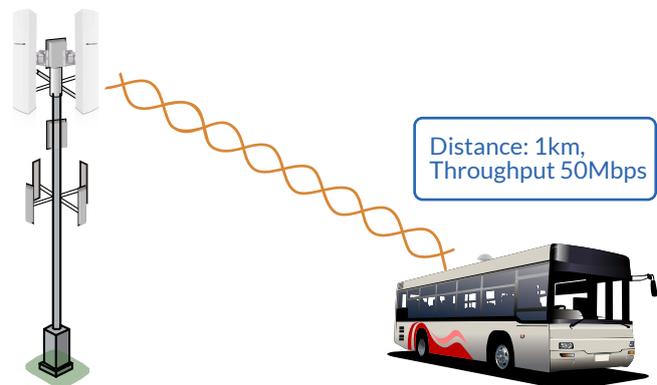
Waterproof

- Magnetic base mounting system
- Ruggedised anti-wobble design



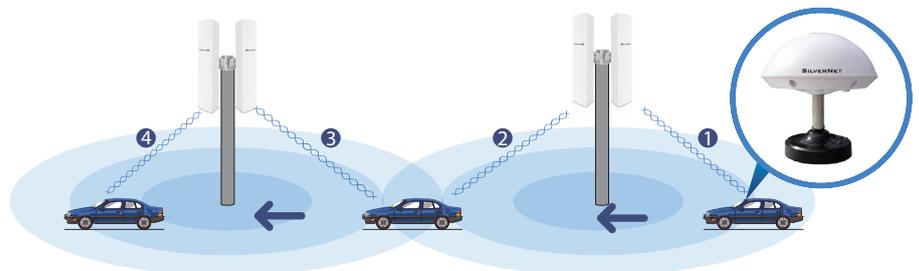
Powerful & Sensitive

- 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 wireless 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

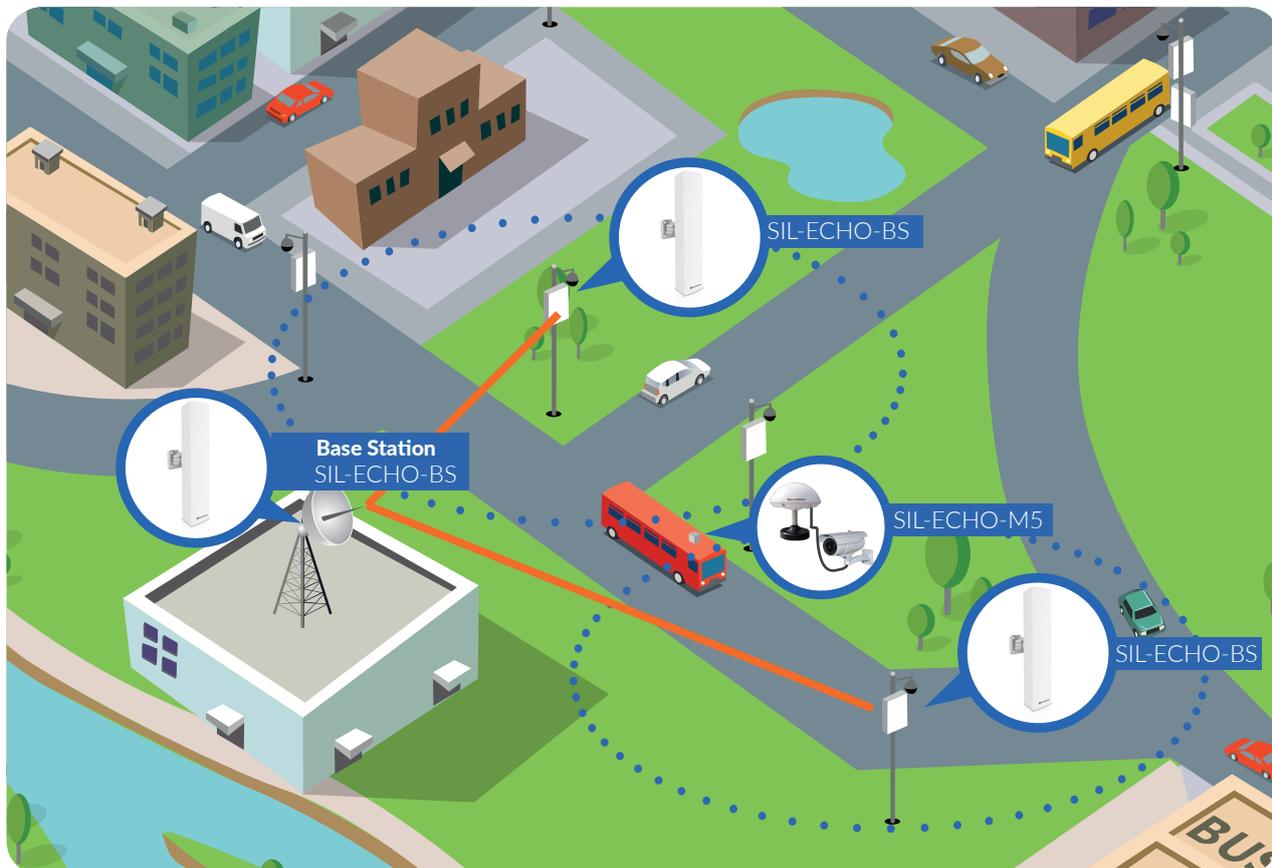


SIL-ECHO-M5 Roaming Data Station

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

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