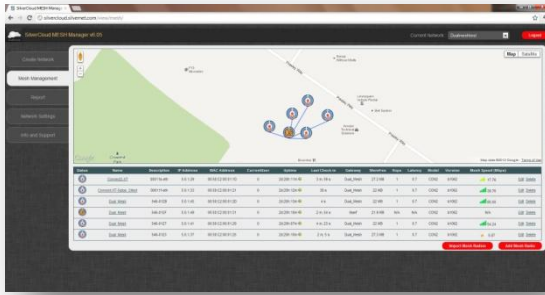
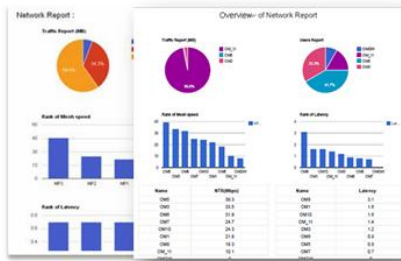


# SILVERNET



- IEEE 802.11n compliant
- Backward compatible with 802.11 a/b/g
- Indoor and Outdoor Applications
- AES Encryption
- MIMO with Spatial Multiplexing
- DFS (Dynamic Frequency Selection)
- TPC (Transmit Power Control)
- PoE 802.3af
- SilverCloud Management
- ONVIF Compliant
- Surge Protected Radio and PSU
- Up to 300Mbps data rates
- IEEE802.11i , IEEE802.1x authentication
- Public + Private SSID



Connect1

Connect2

Connect2 EXT

The SilverNet MESH system uses an advanced algorithm to enhance the throughput and reduce time-outs from the centre to the edge of the network.

The system can also simultaneously support wireless hotspot coverage. It provides wireless broadcast access and high bandwidth for applications such as - audio/data/video, services for the municipal administration, public security etc.

Each wireless node can self-configure and connect to the network, The system is a high performance wireless MESH network system that dynamically optimises traffic path routes and ensures network stability and throughput.

A network failure can be repaired automatically so that the overall performance and the usability is unaffected.

#### Benefits:

- Stable and reliable network. Have the ability of automatic adjustment to choose optimal path.
- Simple network structure. Easy to install. New node to join the network can be discovered automatically.
- SilverCloud NMS is used to Monitor and Configure all radios

SilverCloud is a Cloud Based management utility that allows you to monitor all your MESH nodes and networks from one location. SilverCloud can be accessed from any internet connection thus reducing the need for site attendance, enabling you to have complete control of you infrastructure and optimise network operation at multiples of sites at once.

SilverCloud allows you to monitor uptime, DL/UL Usage, Mesh Speed, Outages and configure your whole network from one location and one setup page.

## Product Model SKU

11n 300 Mesh Range	SILMESH1-INT (Indoor Single Radio MESH)	SILMESH2-INT (Indoor Dual Radio MESH)	SILMESH2-EXT (Outdoor Dual Radio MESH)
<b>Radio Specification</b>			
<b>Transmission rate</b>	11n: Up to 300Mbps 11b/g Backwards Compatible	11n: Up to 300Mbps 11a/b/g Backwards Compatible	
<b>MIMO</b>	2x2	2x2	
<b>Modulation</b>	HT-OFDM with BPSK, QPSK, 16QAM, 64QAM	HT-OFDM with BPSK, QPSK, 16QAM, 64QAM	
<b>Standards</b>	IEEE802.11n, IEEE802.11bg	IEEE802.11n, IEEE802.11a, IEEE802.11bg	
<b>Channel Size</b>	5MHz, 10MHz, 20MHz, 20/40MHz (Auto)	5MHz, 10MHz, 20MHz, 20/40MHz (Auto)	
<b>Channel (Country Dependent)</b>	USA (FCC): 2.412GHz – 2.462GHz Europe (ETSI): 2.412GHz - 2.472GHz	USA (FCC): 5.15GHz - 5.825GHz Europe (ETSI): 5.47GHz - 5.850GHz USA (FCC): 2.412GHz – 2.462GHz Europe (ETSI): 2.412GHz - 2.472GHz	
<b>RF output power</b>	Up to 23dBm from port	Up to 26dBm from ports	
<b>Sensitivity</b>	-78dBm@54Mbps, -71dBm@300Mbps	-82dBm@54Mbps, -74dBm@300Mbps	
<b>Antenna</b>	Integrated Dual polarized Antenna (H+V)	4 x Omni Antenna (RsmA)	4 x Omni Antenna (Ntype) Optional – 120/90 Sector antenna or 12dBi Dual polarised Omni
<b>Security - Network</b>			
<b>WPA2 (AES)</b>	AES 128-BIT		
<b>Legacy Encryption</b>	TKIP, WEP 64 / 128 / 152 bits		
<b>802.1x</b>	Supports 802.1x Client and Server		
<b>Radius</b>	Supports Radius Client, 802.11i		
<b>QoS</b>	Asymmetric Bandwidth Control		
<b>Vlan</b>	802.1Q: Management, trunk, access and transparent mode		
<b>Electrical – Interface</b>			
<b>LAN/WAN</b>	2x 10/100BASE-T (RJ-45) LAN Ports (with Auto MDI/MDIX)	2 x 10/100/1000 BASE-T(RJ-45) LAN Port (with Auto MDI/MDIX)	10/100/1000 BASE-T(RJ-45) LAN Port (with Auto MDI/MDIX)
<b>Power</b>	5.5 watts (typical), 16 watts (max) DC 5–24 Volt or POE (included in kit 100-240vac)	6 watts (typical), 16 watts (max) DC 24–48 Volt or POE (PSU included in kit 100-240vac)	6 watts (typical), 16 watts (max) DC 24–48 Volt or POE (POE Injector included in kit 100-240vac)
<b>Physical</b>			
<b>Dimensions</b>	Unpacked radio 10 x 75 x 2.6 (cm) each	Unpacked radio 16.5 x 11.5 x 3.6 (cm) each	Unpacked radio 22 x 22 x 7.5 (cm) each
<b>Weight</b>	Unpacked radio 0.13Kg Each	Unpacked radio 0.4Kg Each	Unpacked radio 1.6Kg Each
<b>Dust and Waterproof</b>	N/A		Ip66 Certified
<b>Mounting Bracket</b>	N/A		3 Axis Magnesium alloy , wall or pole mount (included in kit)
<b>Environment</b>			
<b>Operating Temperature</b>	-20–70°C (Storage -40–90°C)		-20–70°C (Storage -40–90°C)
<b>Humidity</b>	5–95% (non-condensing)		0–95% (non-condensing)
<b>Other</b>			
<b>Warranty</b>	2 Year Parts and labour		
<b>MTBF</b>	60000 Hrs		
<b>Pack Contents</b>	1 x 11n MESH Radio, 1 x Power Supply	1 x 11n MESH Radio, 1 x Power Supply , 4 x Omni antenna (3/5dbi)	1 x 11n MESH Radio, 1 x POE injector, 1 x Mounting bracket sets, 4 x Omni Antenna (5/7dBi)
<b>SilverCloud Management</b>			
<b>Management</b>	Auto node Configuration, Google maps, office maps or SilverView		
<b>Monitoring</b>	Monitor uptime, DL/UL Usage, Latency, Outages, MESH speed		
<b>Firmware</b>	Auto Upgradeable via SilverCloud or via Web interface		

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SilverNet Limited reserve the right to change specifications and other information within this document without notice and your attention is brought to the fact that performance figures are under ideal conditions. Actual performance will depend on many environmental factors and it is recommended that a site survey if undertaken prior to installation.  
Please also note that this equipment may also be subject to local legislative restrictions such as Band C operation within the UK. It is the end users responsibility to ensure that the installation complies with any such restrictions that are in force.

