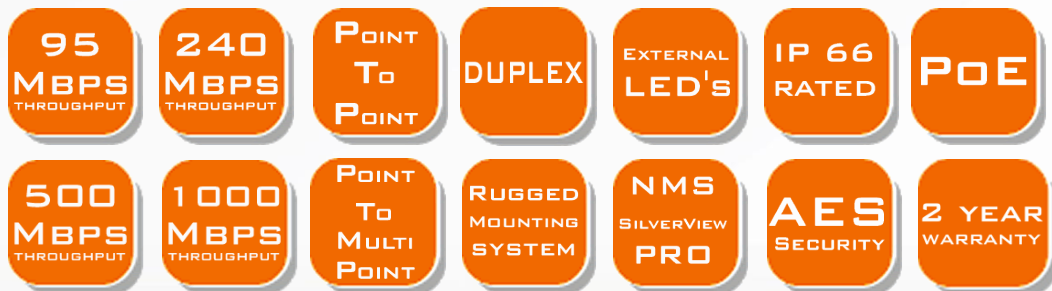




## PRO Range

- Point-to-Point up to 1, 2, 6 or 60KM
- Integrated Antenna
- Point-to-MultiPoint
  - External Omni or Sector Antenna
- Designed for Outdoor Applications
- SNMP
- AES Encryption up to 256bit
- MIMO with Spatial Multiplexing
- DFS (Dynamic Frequency Selection)
- TPC (Transmit Power Control)
- PoE 802.3af
- Rugged Case Design
- SilverView Monitoring Software Included
- WEB Management
- ONVIF Compliant
- Surge Protected Radio and PSU
- Rugged Mounting Brackets
- up to **95, 240, 500 or 1000 Mbps** duplex data Throughput



The PRO Range is a class leading outdoor wireless transmission system that is designed to be easy to install and is extremely compact and rugged. Optimised for the highest capacity and long range.

The PRO range is ideal for connecting LAN's in distant buildings up to **60KM** at speeds up to **95Mbps** throughput, equivalent to a 100BaseT cabled connection or **240, 500 or 1000Mbps** throughput 1000BaseT, Duplex.

The PRO Range also supports Advanced Encryption Standard (**AES**) approved for use to protect Government Classified Information.

The amazingly small form factor of the **PICO** (11.9 x 12.3 x 4.4 cm) will benefit locations where the radio needs to be unobtrusive. As will the **MICRO** (17.9 x 12.3 x 4.4 cm) but with 2 x the transmission range.

The **LITE** builds on the **MICRO** performance adding a rugged housing and 18dBi antenna element for ranges up to 6KM with up to **95, 240 or 500Mbps** duplex data throughput.

The **MAX** builds even further on the **LITE** performance adding a rugged housing and 23dBi antenna element for ranges up to 60KM with up to **95, 240, 500 or 1000Mbps** duplex data throughput.

For Multipoint Systems the **BASE 500** fitted with an Omni or Sector Antenna is the perfect solution for collecting remotely installed radios back to one location.

PRO Range 95Mbps PRO Range 240Mbps PRO Range 500Mbps PRO Range 1000Mbps	SIL PICO 95-PCP (up to 1km paired Link)	SIL MICRO2 95-PCP (up to 2km paired Link)	SIL LITE 95-PCP (up to 6km paired Link) SIL LITE 240-PCP (up to 6km paired Link) SIL LITE 500-PCP (up to 6km paired Link)	SIL MAX 95-PCP (up to 60km paired Link) SIL MAX 240-PCP (up to 60KM paired Link) SIL MAX 500-PCP (up to 60KM paired Link) SIL MAX 1000-PCP (up to 20KM paired Link)	SIL BASE 500 (Multipoint single radio)
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## Radio Specification

Transmission rate	11ac: Up to 1.3Gbps, 11n: Up to 300Mbps, 11a Backwards Compatible				
MIMO	2x2 or 3x3 Spatial Multiplexed Streams				
Modulation	HT-OFDM with BPSK,QPSK, 16QAM, 64QAM, 256QAM				
Standards	IEEE802.11ac, IEEE802.11n, IEEE802.11a				
Channel Size	5MHz, 10MHz, 20MHz, 20/40/80/160MHz				
Channel (Country Dependent)	USA (FCC): 5.15GHz - 5.825GHz Europe (ETSI): 5.47GHz - 5.850GHz				
Operating frequency	4.92GHz ~ 6.1GHz				
RF output power	Up to 26dBm from ports				
Sensitivity	-82dBm@54Mbps, -74dBm@300Mbps, -68dBm@1.3Gbps				
Operating Mode	AP, Station, Repeater and Bridge				
Antenna	12dBi Integrated Dual polarized Antenna (H+V)	15dBi Integrated Dual polarized Antenna (H+V)	18dBi Integrated Dual polarized Antenna (H+V)	23dBi Integrated - Dual polarized Antenna (H+V) 18dBi - Tri polarized Antenna (45° +45° +V)	2 x Ntype female Sockets (H+V)
Horizontal/ Vertical BW	35° x 35°	30° x 30°	20° x 20°	10° x 10° 60° x 8° for MAX-1000	Choice of sector or Omni antennas

## Security - Network

Encryption	AES 128-BIT / 256-BIT + Legacy TKIP, WEP 64 / 128 / 152 bits				
802.1x	Supports 802.1x Client and Server				
Radius	Supports Radius Client, 802.11i				
MAC	Supports MAC address filtering				
QoS	Asymmetric Bandwidth Control				
Vlan	802.1Q: Management, trunk, access and transparent mode				

## Electrical - Interface

LAN/WAN	10/100BASE-T (RJ-45) LAN Port (with Auto MDI/MDIX)	10/100/1000BASE-T(RJ-45) LAN Port (with Auto MDI/MDIX)
Power	6 watts (typical), 16 watts (max) 48 Volt POE (Included in kit 100-240vac)	6 watts (typical), 16 watts (max) DC 24~48 (48~56) Volt or POE (included in kit 100-240vac)

## Management

Remote Connection	Web, Telnet, ssh, SilverView Monitoring				
SNMP	SNMP V2				
Firmware	Upgradeable via web				

## Physical

Dimensions	Unpacked radio 11.9 x 12 x 4.5 (cm) each	Unpacked radio 17.9 x 12 x 4.5 (cm) each	Unpacked radio 21.5 x 21.5 x 7.7 (cm) each	Unpacked radio 37 x 37 x 9 (cm) each	Unpacked radio 21.4 x 21.4 x 6.7 (cm) each
Weight	Unpacked radio 0.3Kg Each	Unpacked radio 0.5Kg Each	Unpacked radio 1.6Kg Each	Unpacked radio 2.5Kg Each	Unpacked radio 1.6Kg Each
Dust and Waterproof	Ip66 Certified				
Mounting Bracket	Steel Bracket	3 Axis Magnesium alloy , wall or pole mount (included in kit)			

## Environment

Operating Temperature	-20~70°C. (Storage -40~90°C.)				
Humidity	0 ~ 95% (non-condensing)				

## Other

Warranty	2 Year Parts and labour				
MTBF	60000 Hrs				
Pack Contents	2x Radios, 2 x POE injector, 2 x Basic Mounting bracket sets	2x Radios, 2 x POE injector, 2 x Mounting bracket sets	2x Radios, 2 x POE injector, 2 x Mounting bracket sets	2x Radios, 2 x POE injector, 2 x Mounting bracket sets	1x Radio, 1 x POE Injector, 1 x Mounting bracket sets

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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 is 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 user's responsibility to ensure that the installation complies with any such restrictions that are in force.



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