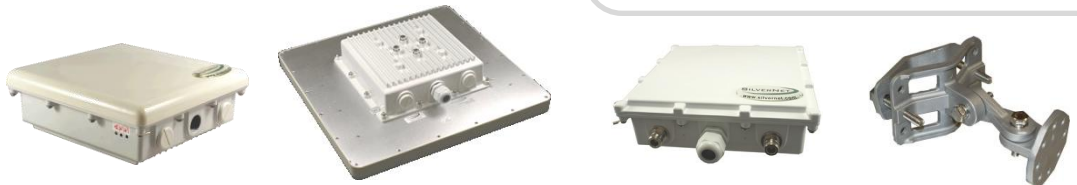# SILVERNET

- Point-to-Point up to 2, 6 or 60KM
  - Integrated Dual 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 or **240Mbps (XT)** Throughput

95 MBPS THROUGHPUT	240 MBPS THROUGHPUT	AES SECURITY	DUPLEX	EXTERNAL LED's	IP 66 RATED	PoE
2x2 MIMO	POINT TO POINT	POINT TO MULTI POINT	RUGGED MOUNTING SYSTEM	NMS SILVERVIEW PRO	300 MBPS	-20 TO +70

The 11n 300 Range is a class leading wireless outdoor bridge that has been optimised for long transmission distances and designed to be extremely compact and rugged.

The 11n 300 range is ideal for connecting LAN's in distant buildings up to **60KM** at speeds up to **95Mbps** throughput, equivalent to a cabled connection 100BaseT or **240Mbps** throughput 1000BaseT, Duplex.

This exciting range of products are IEEE 802.11n/a standard compliant and operate at air interface speeds of up to 300 Mbps.

The 11n 300 Range also supports Advanced Encryption Standard (**AES**) approved for use to protect Government Classified Information.

The amazingly small form factor of the **11n MICRO** will benefit locations where the radio needs to be unobtrusive. (16.4 x 12.3 x 4.5 cm)

The **11n LITE** builds on the **11n MICROs** performance adding a ruggedized housing and 18dBi antenna element for ranges up to 6KM
The **11n MAX** builds even further on the **11n MICROs** performance adding a ruggedized housing and 23dBi antenna element for ranges up to 60KM

The **11n LITE XT** has a massive performance enhancement meaning that it can transfer up to 240Mbps of data Duplex. Adding a gigabit Ethernet port ruggedized housing and 18dBi antenna element for ranges up to 6KM
The **11n MAX XT** builds even further on the **11n LITE XTs** performance adding a ruggedized housing and 23dBi antenna element for ranges up to 60KM

For Multipoint Systems the **11n BRIDGE** or **11n BRIDGE XT** fitted with an Omni or Sector Antenna 90 or 120 degrees is the perfect collector radio for remotely fitted radios.

Product Model SKU

11n 300 Range 95Mbps **11n 300 Range 240Mbps**	SILMICRO300-PCP (up to 2km paired Link)	SILLITE300-PCP (up to 6km paired Link) **SILLITE300XT-PCP (up to 6km paired Link)**	SILMAX300-PCP (up to 60km paired Link) **SILMAX300XT-PCP (up to 60KM paired Link)**	SIL11nBR (Multipoint single radio) **SIL11nBRXT (Multipoint single radio)**
Radio Specification				
Transmission rate	11n: Up to 300Mbps 11a Backwards Compatible			
MIMO	2x2 Spatial Multiplexed Streams			
Modulation	HT-OFDM with BPSK,QPSK, 16QAM, 64QAM			
Standards	IEEE802.11n, IEEE802.11a			
Channel Size	5MHz, 10MHz, 20MHz, 20/40MHz (Auto)			
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			
Operating Mode	AP, Station, Repeater and Bridge			
Antenna	13dBi Integrated Dual polarized Antenna (H+V)	18dBi Integrated Dual polarized Antenna (H+V)	23dBi Integrated Dual polarized Antenna (H+V)	2 x Ntype female Sockets (H+V)
Horizontal/ Vertical BW	30° x 30°	20° x 20°	10° x 10°	Choice of sector or Omni antennas
Security - Network				
WPA2 (AES)	AES 128-BIT / 256-BIT			
Legacy Encryption	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(1000 XT)BASE-T(RJ-45) LAN Port (with Auto MDI/MDIX)	10/100(1000 XT)BASE-T(RJ-45) LAN Port (with Auto MDI/MDIX)	10/100(1000 XT)BASE-T(RJ-45) LAN Port (with Auto MDI/MDIX)
Power	6 watts (typical), 16 watts (max) DC 24~48 Volt or 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)	6 watts (typical), 16 watts (max) DC 24~48 (48~56) Volt or 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 16 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 0.6Kg Each	Unpacked radio 1.6Kg Each	Unpacked radio 2.5Kg Each	Unpacked radio 1.6Kg Each
Dust and Waterproof	Ip66 Certified			
Mounting Bracket	3 Axis Magnesium alloy , wall or pole mount (included in kit)			
Environment				
Operating Temperature	-20~70℃ (Storage -40~90℃)			
Humidity	0～95％ (non-condensing)			
Other				
Warranty	2 Year Parts and labour			
MTBF	60000 Hrs			
Pack Contents	2x 11n MICRO, 2 x POE injector, 2 x Mounting bracket sets	2x 11n LITE (XT), 2 x POE injector, 2 x Mounting bracket sets	2x 11n MAX (XT), 2 x POE injector, 2 x Mounting bracket sets	1x 11n BRIDGE (XT), 1 x POE injector, 1 x Mounting bracket sets

Distributed by:

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