LP-AVSUXX
ATLAS Series Vehicule Suscriber Unit: A Wireless Mobile Data Solution

Features

- **Boundless mobility and variety.**
  Various frequency options provide both LOS and NLOS solutions to achieve the real mobility- anytime, anywhere. To collocate with proper backhaul, ATLAS VSU Series can extend the network to where vehicle can arrive without concerning the limitations of copper or fiber cable deployment for internet access or any kind of Ethernet data transmission.

- **Effective spectrum usage.**
  ATLAS VSU Series can narrow the channel into smaller bandwidths (5/10/20 MHz) for optional, which allows more non-overlapping channels in practical deployment that provides better flexibility in deploying the network.

- **Regatta mode increase the performance up to 35%.**
  Unique technology called Regatta mode can enhance the performance of the radio up to 25~35%.

- **Versatile Quality of Service / Time-Division Multiplexing technique.**
  TDM tech can avoid the packets collision and send the packets more efficient and stable to improve the quality of voice and data transmission. The data rate of the CPE radio can be set in fractional (nx64 Kbps).

- **Security.**
  WEP 64 / 128 / 152 bits, WPA-PSK, WPA-TKIP and WPA2 (AES-128 bits) encryption, 802.1x Authentication (EAP), MAC access control, disable broadcast the SSID, and client isolation, build the highest security mechanism to prevent malicious attacks from the Internet.

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The ATLAS VSU (Vehicle Subscriber Unit) Series from LanPro provides LOS (Line of sight) and NLOS (Near/ Non-Line of sight) solutions for mobile Video, Data, and Voice transmission applications. LOS solution includes ISM Band, UNII band, Public Safety band, and some other frequencies; NLOS solution includes UHF band (300 MHz & 400 MHz).

The fractional bandwidth control feature allows more non-overlapping channels in practical deployment that provides better flexibility in deploying the network.

Highly output power OFDM technology gives the ability for Near/Non-line of sight deployment, and the unique Regatta mode can speed up the 54 Mbps throughput to 25~35%.

The ATLAS VSU series utilizes Time Division Duplex technology allowing operation on a single channel. The Ethernet products are primarily designed to provide standard Ethernet interface with a robust aluminum alloy indoor unit.

www.lanpro.com

A APPLICATIONS

- **Temporary voice service for harsh environment.**
- **Mobile video monitoring.**
- **Mobile hotspot for Internet access.**
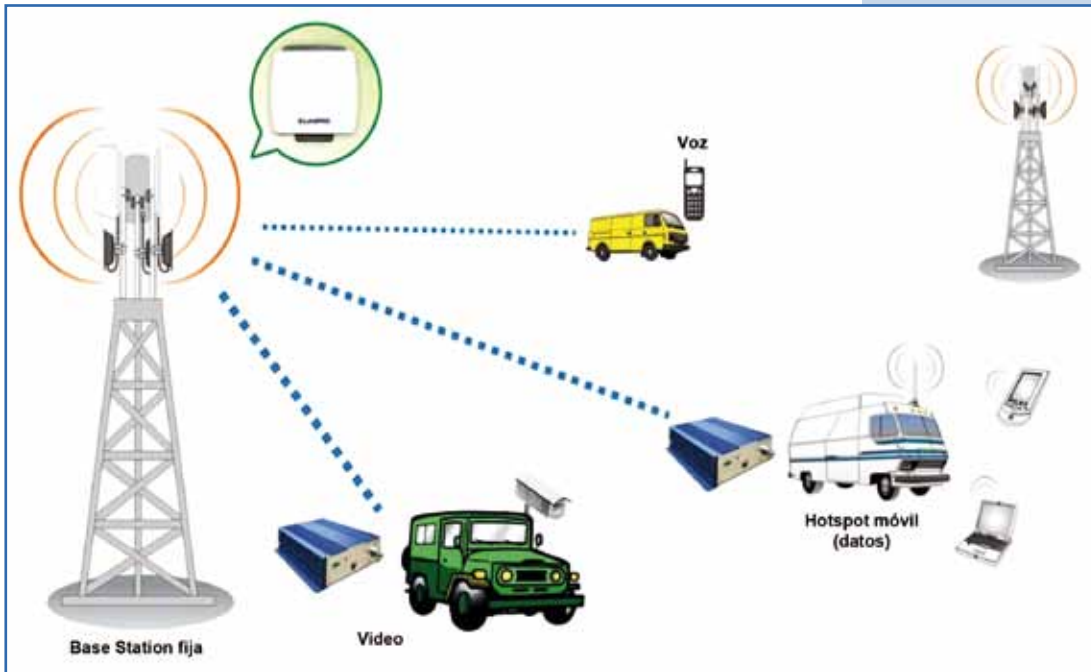- **Mobile work orders for airports, harbors, or industrial parks.**

B VARIOUS FREQUENCY SOLUTIONS

LOS Solution:
ISM band (2.4 GHz / 5.8 GHz)
UNII band (5 GHz)
Public safety band (900 MHz / 4.9 GHz)
Others (2.3 GHz / 3.3 GHz / 3.5 GHz).

NLOS Solution:
UHF band (300 MHz / 400 MHz).

C SPECIFICATIONS

RADIO	
Operating Channels	300 MHz / 400 MHz / 900 MHz / 2.3 GHz / 2.4 GHz / 3.3 GHz / 3.5 GHz / 4.9 GHz / 5 GHz
Channel Bandwidth	Software selectable channel bandwidths of 5, 10 and 20 MHz

Output power and Rx Sensitivity ***RX sensitivity: Packet ErrorRate: 10%**	Data Rate	Modulation	Tx Output pwr	Rx sensitivity
	2 2.3 GHz / 4.9 GHz			
	54 Mbps@OFDM	64 QAM	19 (±1.5) dBm	-75 dBm
	36 Mpbs@OFDM	16 QAM	20 (±1.5) dBm	-82 dBm
	18 Mbps@OFDM	QPSK	21 (±1.5) dBm	-86 dBm
	6 Mbps@OFDM	BPSK	21 (±1.5) dBm	-90 dBm
	ISM Band / UNII Band			
	54 Mbps@OFDM	64 QAM	18 (±1.5) dBm	-75 dBm
	36 Mpbs@OFDM	16 QAM	21 (±1.5) dBm	-82 dBm
	18 Mbps@OFDM	QPSK	22 (±1.5) dBm	-86 dBm
	6 Mbps@OFDM	BPSK	23 (±1.5) dBm	-90 dBm
	900 MHz / 3.3GHz / 3.5GHz			
	54 Mbps@OFDM	64 QAM	20 (±1.5) dBm	-75 dBm
	36 Mpbs@OFDM	16 QAM	21 (±1.5) dBm	-82 dBm
	18 Mbps@OFDM	QPSK	22 (±1.5) dBm	-86 dBm
	6 Mbps@OFDM	BPSK	25 (±1.5) dBm	-92 dBm
	UHF Band			
	54 Mbps@OFDM	64 QAM	33 (±1.5) dBm	-90 dBm
	36 Mpbs@OFDM	16 QAM	33 (±1.5) dBm	-98 dBm
	18 Mbps@OFDM	QPSK	36 (±1.5) dBm	-101 dBm
	6 Mbps@OFDM	BPSK	37 (±1.5) dBm	-103 dBm

Fractional Bandwidth	5 MHz / 10 MHz / 20 MHz adjustable via software
Frequency Stability	±10 ppm
Modulation	OFDM

INTERFACES	
RF (antenna) connector	N-type (Jack)
Ethernet	IEEE 802.3 (10Base-T) / IEEE 802.3u (100Base-Tx)

MANAGEABLILITY	
Management and Setup	Web-based configuration
Operating mode	Base station / CPE / Peer to Peer
SNMP agents	MIBII
Protocol	TCP/IP, IPX/SPX, NetBEUI
Operating System	Windows 98 / 2000 / NT / XP
Network Architecture	Point to point / Point to multi-point / Base station to CPE
QOS	Peer to Peer link speed limit/ uplink speed limit
Bandwidth Management	Versatile Quality of Service
DHCP supports	DHCP client
Other features	VLAN(IEEE 802.1Q)

SECURITY	
Data Encryption	64/128/152 bits encryption
	WPA-PSK, WPA-TKIP, WPA2-AES 128 bits
Authorization	MAC Address Access Filter
Advanced Security	Disable broadcast SSID
	Wireless Client Security Separation (Layer 2 Isolation)

ENVIRONMENT	
Operating Temperature	-30ºC~55 ºC
Storage Temperature	-30ºC~70 ºC
Humidity	95% non-condensing
POWER SUPPLY	
DC 10~30VDC	
PHYSICAL	
Dimension	230 (L) × 198 (W) × 60 (H) mm
Weight	2.3 Kg
WARRANTY	
Duration	1 year
ADVANCE	
Base Station Scanning	Site survey and RSSI signal level display
Watchdog	

D   How to Order

LP-AVSUXX (Where XX is the frequency of operation). Please Call for quote.