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COMMUNICATIONS MAKERS

HIPERLINK

BACKHAULS 300

Very High Performance Point-to-Point

Benefits

- Point-Point 5 GHz (HIPERLAN)
- MIMO Throughput up to 300 MB/s
- Version with external antenna: metal case IP68 vandal resistant die-cast aluminum with antioxidant treatment Alodine 1200 and support brackets to the pole in stainless steel
- Painting with high resistance paint to bad weather
- Metallic Power supply with LED status indicator operation
- Power Over Ethernet (POE) 48Vdc or 12Vdc
- Internal electronics overvoltage protection designed to protect POE data entry
- Option: RF band-pass filters (5GHz) for best performance by linking and "beats" reduction in RF band .
- Option: Power by solar panel
- Option: Input data in fiber optic in order to use the equipment on towers coexisting with Radio and TV signals
- Encryption WPA2, WPA or WEP
- Mesh Technology
- DFS, TPC and ACCS
- Radio type OFDM or DSSS
- Ability NLOS
- Drag'n'drop Backup system
- Plug'n'Play simple installation
- TCP / IP stack, flexible configuration
- Diagnostic equipment "on board" or remotely
- Upgrade software, monitoring and remote configuration
- Installed with "general authorization"

Applications

- Carrier
- System Integrator
- Security and Urban Video Surveillance
- Wireless Internet Service Provider - WISP
- Point-to-Multipoint Wireless Private Networks
- Emergency back up/Disaster Recovery
- Military, government or university
- Alternative to cable CDN, HDSL or Optical Fiber

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Description

HIPERLINK 300 Backhaul is a point-to-Point Outdoor Ethernet high-capacity MIMO technology that can make a wireless link at middle and long distance.

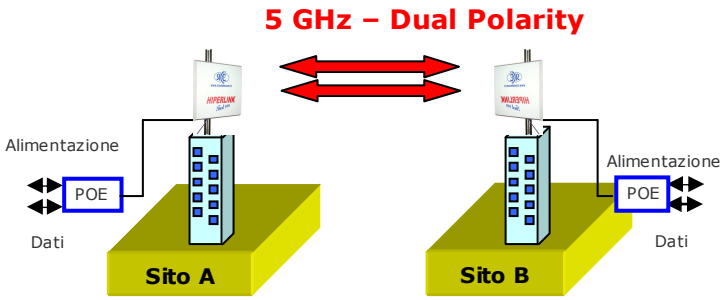
HIPERLINK 300 Backhaul is available in two configurations:

- Backhaul with 23dB integrated antenna
- Backhaul, without integrated antenna, with RF output on "N" female connector to install a beam antenna different than integrated.

HIPERLINK 300 Backhaul is mass-produced with standard Power Over Ethernet (POE) 48V power supply. Are also available in 12V and 24V to be powered by batteries or solar cells.

The antenna provides high gain (23dB) allowing point-to-point connections in extreme security up to a mean distance.

The robustness of the system and the degree of protection IP67 waterproof equipment, allows you to install such systems in the most difficult environments such as marine, mountains at high altitude or desert areas.



Are there foreseen the latest generation features for VPN , data security, encryption, IP Assignment, Software Update Remote Agent and SNMP.

300 HYPERLINK Backhaul is widely used in construction of infrastructure for Wireless Network Service Provider, security and urban video surveillance, Carrier, Military Institutions, Government, Universities and Disaster Recovery.

The Hiperlink apparatus is suitable for the construction of high-capacity backbone and can reach up to 90 Mbps full duplex with a 20 MHz dual-channel (MIMO).

Main features

Operative bandwidth:	5,47-5,725 GHz (also available at 2.4GHz)
Modulation:	DSSS: DBPSK, DQPSK, CCK OFDM: BPSK, QPSK, 16 QAM, 64 QAM
TX Power:	30 dBm EIRP
Sensitivity:	-91 dBm@ 6 Mbit/s ± 1dB (typ)
RF output:	On internal antenna 23dB double polarization and/or on "N"/Fem. 50 Ω connector (to choose during purchase order)
RF Filter:	SICE band-pass filter 5 GHz (optional)
Channel management and Transmit power management:	DFS (Dynamic Frequency Selection), Auto Channel Selection,Radar free TPC function
Operative mode	Dynamic Mesh, Static WDS Mesh, Bridging PtP & MtP
Standard Ethernet:	802.3 CSMA/CD
Power supply and consuption:	POE 48 V 802.3 af o POE 12 V/24V 11 W
Protection:	Electronic circuit for lighting protection
Degree of protection:	Watertight IP67 in die-cast aluminium
Temperature Range:	-40°C / + 55°C
Pole support:	For mm 40/70 poles (H and V adjustment).
Dimension:	340 mm x 340 mm x 90 mm
Weight:	2,9Kg (internal antenna); 4,4 Kg (external antenna)
Bridge:	Multiple bridge interfaces Bridge associations on a per interface basis, Protocol can be selected to be forwarded or discarded MAC address table can be monitored in real time IP address assignment for router access STP Spanning Tree Protocol

External antennas available:	Directive Grid, Panel or Dish (many gains)
Management and configuration modes:	Telnet, client, Telnet server, MAC Telnet server, SSH, GUI su SSH, http
VPN Support:	IPSEC, EoIP, PPtP, VLAN, L2TP, PPPoE, IPIP
IP Assignment:	DHCP client, DHCP server
Ethernet port:	Fast Ethernet 10/100 Full Duplex, Autosensing
VLAN:	802.1q, Multiple VLAN interface, inter VLAN routing
Software update, backup and restoring configuration:	By FTP and Drag and Drop directly from system folder
Restore and Fault tolerant	Watchdog and hardware and software with e-mail Alert
Security: **Network Management:**	Association protocol– ESSID Encrypyion : WPA2 , WPA, WEP authentication AES-CCM & TKIP Encryption Internal Firewall i; INTERNAL ROUTER Peer to Peer protocol limitation MAC-ADDRESS authentication & filtering IP address filtering & protocol filtering RADIUS server Authentication (AAA)
Access protection:	Multilayer users management
Agent SNMP:	SNMP V1 client, MIB II, Bridge MIB
QoS	802.1p (Layer2 traffic priority) IPToS RFC791 (Layer3 traffic priority) CBQ Queuing Layer 4-7 traffic shaping Hierarchical HTB QoS system with bursts PCQ, RED, SFQ, FIFO queue; CIR, MIR Contention ratios, dynamic client rate equalizing

Apparatus codes

ATRH0513	HIPERLINK point-to-point 5GHz with integrated antenna dual polarization 23dB, support bracket and POE Power supply
ATRH0503	HIPERLINK point-to-point 5GHz without integrated antenna, n°2 RF Output on N connector, support bracket and POE Power supply

www.sicetelecom.it

Via Tazio Nuvolari, 53 55061 – Carraia – Lucca
Tel +39 0583 980787
Fax +39 0583 981495
E-mail: info@sicetelecom.it

www.sicetelecom.com