

LNK-LU050-15

35Mbps RADIOLINK 4.9-5.8GHz BAND

- 35Mbps net throughput
- Selectable channel bandwidth
- Accurate latency control
- QoS and service differentiation
- OFDM with adaptive modulation
- True-TDMA technology
- Full-outdoor IP67 and energy-efficient
- Integrated 15dBi antenna



PRODUCT OVERVIEW

LNK-LU050-15 is Alpentia System's professional PtP radiolink in the 5GHz band. This equipment covers the 4.9-5.875GHz licensed band and offers a net capacity of 35Mbps in a selectable channel bandwidth of up to 10MHz, allowing for a more efficient use of the spectrum and frequency reuse.

Designed in compliance with aerDOCSIS technology, this equipment has automatic power control (ATPC) allowing optimal network deployment, frequency reuse and avoid interference. This new solution incorporates powerful mechanisms to ensure reliable communication. It also includes authentication ARQ, AES128 and 3DES encryption, robust adaptive modulation and error detection mechanism.

APPLICATIONS

- Wireless bridges
- Backhaul systems for cellular networks or access networks
- Radiolinks for corporate access
- Radiolinks for professional video transmission
- Professional applications



Specifications

RADIO PARAMETERS

Frequency band	4900-5875MHz
Modulation	OFDM with 256 subcarriers
Channel bandwidth	10 / 7 / 5 / 3.5 / 1.75 MHz
Adaptive modulation	BPSK, QPSK, 16QAM and 64QAM
FEC	Reed-Solomon and convolutional
Maximum RF power	+23dBm
Transmission power control	>30dB
Duplexing technique	TDD (Time Domain Duplexing)
Uplink/downlink allocation	Programmable between 85-15% and 90-10%
Antenna	15dBi
BPSK sensitivity	-92dBm @ 10MHz -99dBm @ 1.75MHz
64QAM sensitivity	-74dBm @ 10MHz -81.5dBm @ 1.75MHz

TRAFFIC AND THROUGHPUT

Maximum over-the-air rate	50Mbps
Net Ethernet traffic	35Mbps
Maximum PPS	10.000
ARQ support	Yes. Selectable per service
Encryption	AES256, AES128 y 3DES

MANAGEMENT

Management Interface	HTTP/HTTPS/SSH/XML-RCP SNMP v1/2/3, XML-RCP, puerto para ACC-HU
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NETWORKING

Layer 2 functionality	Bridging (IEEE 802.1), VLAN (IEEE 802.1q)
Layer 3 functionality	Dynamic/static routing, NAT, DHCP server/client
Data interface	10/100 Base-T Ethernet RJ45
Max. packet size	2048 bytes

PHYSICAL FEATURES

Dimensions	275 x 137 x 65 mm (packed)
Weight	0,68 kg (mounting kit included)
PoE supply (not included)	100-240 VAC 50/60 Hz input 24 VDC IA output (Optional DC input 10-24 VDC)
Power consumption	< 4,5 W (100% traffic)

STANDARDS

Protocol	aerDOCSIS compatibility with 802.16-2012
Radio	ETSI EN 301 893, ETSI EN 302 502
Environment	ETSI EN 300 019-1-4C4.1E (ODU) ETSI EN 300 019-1-3-C3.2 (IDU)
EMC	ETSI EN 301489-1 V1.8.1 ETSI EN 50383 (SAR), ETSI EN 50383 (EMF)

QUALITY OF SERVICE (QoS)

QoS	Layer 2 QoS. Guaranteed min/max capacity per service
VLANs	802.1q, 802.1p, q-in-q support, unlimited VLANs
Service differentiation	L2: MAC source/destination address, EtherType, VLAN tag L3: DSCP ToS, IP source/destination address and subnet, protocol L4: TCP, UDP source/destination port
Service flows	Unlimited

