

LNK-LU150-N

35 Mbps RADIOLINK 4.9-5.9GHz 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

N-type connector for external antenna



PRODUCT OVERVIEW

LNK-LU150-N is Albentia Systems' professional PTP radiolink in the 3.5GHz band. This equipment covers the 4.9GHz security band and the 5GHz unlicensed band. This equipment delivers 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 features strong mechanisms for QoS management, service differentiation and latency control, focusing on QoS and accuracy, unlike other wireless systems which are solely oriented towards capacity.

The system's configuration is based in a potent mechanism web (https), moreover of SNMP, CLI and XML-RPC.

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	4900-5875 MHz
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	+20 dBm
Transmission power control	>30dB
Duplexing technique	TDD (Time Domain Duplexing)
Uplink/downlink allocation	Programmable between 85-15% and 90-10%
Antenna	N-type connector
BPSK sensitivity	-92dBm @ 10MHz -99dBm @ 1.75MHz
64QAM sensitivity	-74dBm @ 10MHz -81.5dBm @ 1.75MHz

TRAFFIC AND THROUGHPUT

Maximum over-the-air rate	52 Mbps
Net Ethernet traffic	35 Mbps
Maximum PPS	10.000
ARQ support	Yes. Selectable per service
Encryption	AES128 and 3DES

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	16

MANAGEMENT

Local	Web, CLI
Remote	SNMP v1/2/3, XML-RPC
Advanced	SMC channel support, double IP data/management

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	306x 306 x 82 mm (packed)
Weight	3 kg (mounting kit included)
PoE supply (not included)	100-240 ACV 50/60 Hz input 56 DCV output (Optional DC input 18-72 DCV)
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 301489-17V1.2.1