SENCITY®LINK

SL60-501
Point-to-Point Wireless Ethernet Bridge

SENCITY®LINK SL60-501 is designed to work as a point-to-point data link in the 60 GHz unlicensed band. It supports short range applications up to 1600 m (5249 ft) with 160 Mbps data throughput. The signal absorption by oxygen and the narrow beam width of the high gain planar antenna allows for high spatial reuse and a high security level.

Benefits

Easy installation

The single cable solution reduces the complexity of the installation.
The visual alignment tool allows the user to easily install the link. Immediate operation without the need of additional configuration is granted.

Network performance

Guaranteed full duplex 160 Mbps along the complete range. Unlike typical WLAN equipment the user can transmit a full 160 Mbps over the link.

License free operation

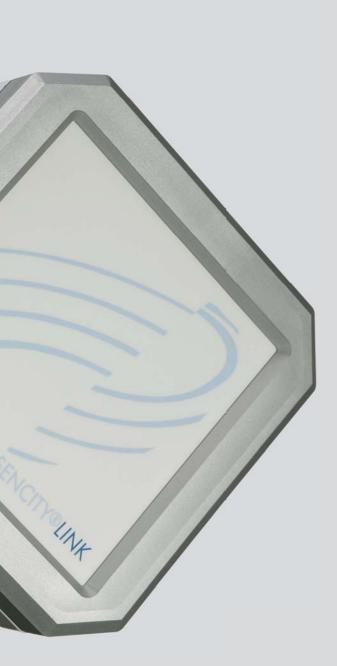The system has been approved for operation by a large variety of countries.

System administration

To monitor the status and the traffic the user can access the link statistics either via the HTML user interface or by integrating it into a network management tool via SNMP.

Security

The proprietary radio interface does not allow any other system to access the 60 GHz transmitted data.
A high level of data security is inherent in the product via signal absorption by atmospheric oxygen and the use of high gain/narrow beam width antennas.

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General system information

Transmission capacity: 160 Mbps full duplex

Range*: up to 1600m (5249 ft)
*The range depends on the climate zone and the requested availability

Modulation type: BPSK

FEC: Reed Solomon

Availability*: up to 99.999%

Wind load: operating 160 km/h, survival 200 km/h

MTBF: 190'000 h (21 years)

Network

Ethernet frame size: max. 9000 bytes

Latency: < 50 µs

VLAN: IEEE 802.1q

Interfaces: 10 Base-T, 100 Base-TX, 1000 Base-T

QoS

Flow control

Connection

Cable length: max. 100 m (300 ft)

Signal wires: Cat 5e or better

Connector: RJ-45 (outdoor gigabit Ethernet seal kit included)

Alignment port: waterproofed QMA (adapter for banana connector included)

Physical

Dimension (terminal):
182 x 182 x 68 mm
(7.2" x 7.2" x 2.7")

Weight: 2.5 kg (5.5 lb) terminal, 1 kg (2.2 lb) bracket

Management

SNMPv2

HTTP (Web browser-based)

Power supply

PoE+ (IEEE 802.3at)

Power Consumption: 18 W

Environmental

ETSI EN 300 019-2-4 T 4.1E for telecommunications equipment non-weather protected locations – extended

Temperature range: -45°C to +55°C

Regulatory

EN 50371, EN 55022, EN 55024, EN 60950-1, EN 302 217-3, EN 302 217-4-2, FCC Part 15, IC RSS210, RIR0302-47, BNA Mitteilung 217 /2008

Order Information (link i.e. two terminals)

SL60-501   84092442   160 Mbps, 1600 m range**
** guaranteed minimum range performance measured on the indoor test branch simulating path loss excluding rain attenuation

Applications

- LAN extension
- Redundant access
- Campus connectivity
- Disaster recovery
- Wireless backhaul
- Centralization of IT infrastructure
- Temporary connections during events
- Mesh and multipoint networking