

Hyperlan-Pack

Outdoor high speed wireless Ethernet backhaul



- Cable-free building-to-building network communications ...
- Deliver 40 Mbps TCP data rate up to 5Km or 10 Mbps TCP data rate up to 50Km, depending to local regulations
- Secure connectivity, narrow beam
- 10/100 Base TX network interface
- IP66 enclosure, Ethernet cable powered (POE)



Introduction

HyperLan-Pack is a solution to establish a high speed Ethernet wireless link between buildings, factories, CCTV cameras, offshore platforms and temporary installations ... to connect Ethernet networks or Ethernet devices between each other.

The kit is built around two WiFi units and two parabolic antennas.

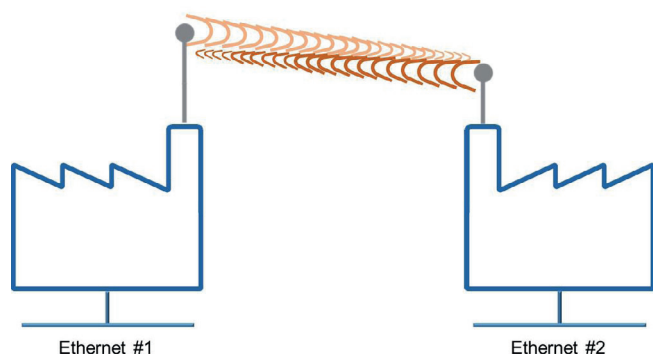
HyperLan-Pack relies on the WiFi 5.3 GHz standard (IEEE 802.11a) which is not widely used by WiFi equipments. This offers a good level of protection against perturbations generated by existing WiFi networks; moreover, the RF radiated beam is narrow (few degrees) so it's almost undetectable.

Technical characteristics overview

| | |
|--------------------------------|---|
| Ethernet Link | 10/100 base TX Ethernet port with auto detection, waterproof M12 8-point Ethernet connector, «plug & play» mode «auto MDI/MDIX cross-over», 25 m RJ45 cable |
| Radio Link | Compliant with IEEE 802.11a (5.3 Ghz) |
| Power, sensibility | Transmitter +20 dBm, Receiver -92 dBm |
| Antenna | Directional narrow beam antenna, N-type connector, 23 or 28 dBi depending to models, lightning surge protection included, mast mounting (50 mm) |
| Signaling | LAN & WLAN activity on LEDs |
| Administration | SNMP and ACKSYS NDM |
| Security | Pre-configured WPA2-PSK, hidden SSID, narrow beam (6°) |
| Power supply | POE IEEE 802.3af or +9VDC to +75VDC, 7W typical consumption |
| Dimensions & weight | IP66 aluminum enclosure (L: 80 x l: 175 x h: 57 mm) ; Directional antenna diameter: 60 cm (28 dBi) |
| Environment | Operating temperature: -25°C to +70°C, storage: -40°C à +80°C |

Application example

Network connection between two buildings



Up to 5 Km and 40 Mbps UDP throughput

Throughput characteristics versus communication range

| | Ethernet throughput (TCP) | Range |
|-----------------|---------------------------|-------|
| HyperLan-Pack/L | 10 Mbps | 50 Km |
| | 20 Mbps | 20 Km |
| | 40 Mbps | 5 Km |

Given characteristics are theoretical and can change depending on local RF regulations concerning the maximum allowed output power (EIRP) and on environment conditions.

Ordering references

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|-----------------|--|
| HyperLan-Pack/L | Ready-to-use wireless Ethernet backhaul, high speed, long range including two radio units, two 28 dBi antennas with lightning surge protection and mast mounting accessories, one 25 meters Ethernet cable per radio unit, POE power supply (not included) |
| HyperLan-Rad/L | Radome cover for parabolic dish antenna HyperLan-Pack (600 mm) |

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