

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.

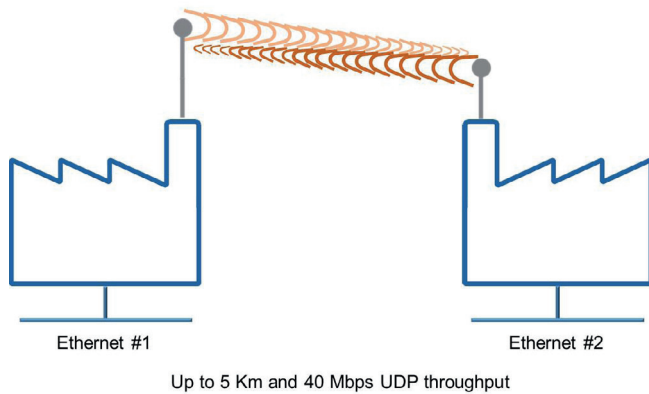
HyperLan-Pack relies on the WiFi 5.3 GHz standard (IEEE 802.11a) which is not widely used by WiFi equipments. This offers a good level of protection against perturbations generated by existing WiFi networks; moreover, the RF radiated beam is narrow (few degrees) so it's almost undetectable.

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



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

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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