Outdoor high speed wireless Ethernet backhaul

- Cable-free building to building network communications …

- Deliver 40 Mbps TCP data rate up to 5 Km or 10 Mbps TCP data rate up to 50 Km, depending to local regulations

- Secure connectivity, narrow beam

- 10/100 Base TX network interface

- IP66 enclosure, Ethernet cable powered (POE)

HyperLan-Pack

**IEEE 802.11a
WiFi 5 GHz**

**RF Module
certified**

WiFi™

RoHS WEEE

5-YEAR WARRANTY

ACKSYS
COMMUNICATIONS & SYSTEMS

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.

HyperLan-Pack is available in two versions: long range (up to 5 Km) and medium distance (up to 1.5 Km) at 40 Mbps.
Range increase significantly (up to 50 Km) if data rate is reduced to 10 Mbps.

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

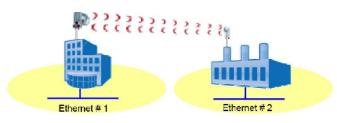|	
Ethernet link	10/100 base TX Ethernet port with auto détection, waterproof M12 8-point Ethernet connector, "plug & play" mode "auto MDI/MDIX cross-over", 25 m RJ45 cable
Radio link	Compliant with IEEE 802.11a (5.3 Ghz)
Power, sensibility	Transmitter +20 dBm, Receiver –92 dBm
Antennas	Directional narrow 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 à +75VDC, 7W typical consumption
Dimensions & weight	IP66 aluminum enclosure (L: 80 x l: 175 x h: 57 mm) ; Directional antenna diameter: 44 cm (23 dBi), 60 cm (28 dBi)
Environment	Operating temperature: -25°C to +70°C, storage: -40°C à +80°C

Throughput characteristics versus communication range

Application example

Network connection between two buildings

Ethernet # 1   Ethernet # 2

Up to 5 Km and 40 Mbps TCP data throughput

	Ethernet throughput (TCP)	Range
HyperLan-Pack/L	10 Mbps	50 Km
	20 Mbps	20 Km
	40 Mbps	5 Km
HyperLan-Pack/M	10 Mbps	15 Km
	20 Mbps	6 Km
	40 Mbps	1.5 Km

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

References to order

HyperLan-Pack/M	Ready-to-use wireless Ethernet backhaul, high speed, medium range including two radio units, two 23 dBi antennas with lightning surge protection and mast mounting accessories, one 25 meters Ethernet cable per radio unit, POE power supply (not included)
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/M or /L	Radome cover for parabolic dish antenna HyperLan-Pack (/M: 440 mm, /L: 600 mm)