HyperLan-Pack

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	:ACKSYS :HyperLan-Pack
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	86-020-87377431 852-25059588 13826111370

hyperlan-pack

point to point long range wifi communication.ethernet wireless backhaul, kit made from 2 pre-configured units

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acksys   (wlan)   ieee 802.11   (2.4   )   900
                                    :   ,   ,   ,
            keya??   :   rs232,rs422,rs485
              ,   /
tcp   ,   /tcp,profinet,   /ip,.... dnp3   hyperlan-pack
                                                      …   h
yperlan-pack   :   (5   )   (1.5   )40   (50   )
        10   :
                                                acksys   gps

                        ,   hyperlan-
pack   5.3   (ieee 802.11 a)
                        ,   (   ),
        air-pack   wpa2-psk   auto-sensing 10/100 tx,   mdix
rj45   mdi /   ,   tcp   40   hyperlan-pack   (ieee 802.3
af),   (+ 9   + 75 vdc)   7
w   10/100 auto-
sensing   tx   m12   8   ,   mdix mdi
/   ,25   rj45   40   tcp   5.3

acksys proposes a wide range of wireless equipments (wlan) for industry and transportation fields relying on the wifi ieee 802.11 standards (2.4 & 5 ghz) and on the 900 mhz unlicensed radio band for long range and non-line-of-sight operation including: access points, bridges, bridges routers, repeaters, serial to wireless gateways, radio switches, packs for point to point communications.

these equipments make it possible to:

build a wireless networkconnect rs232, rs422, rs485 serial equipments together without any wiring operationconnect ethernet networks together without any cablebuild a wireless bridge between a serial modbus network and modbus/tcp wirelessly connect ethernet, modbus/tcp, profinet, ethernet/ip, dnp3 equipments ....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, installation is very easy as described below: antenna height calculation depending on distance and land topography   antenna mounting on masts   antenna tilt calculation using acksys software and a gps   antenna vertical alignment according to calculated tilts using a clinometer   antenna horizontal alignment using a compass   ethernet cable connexion on each unit   radio quality and sustained data rate checkinginstallation is now complete, your wireless ethernet link is established and your network connection is ready to use.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.the radio link between the two units of the ethernet air-pack is secured by the wpa2-psk authentication and encryption method.each unit features a 10/100 base tx auto-sensing, auto mdi/mdix cross-over rj45 network interface, maxium tcp data throughput is 40 mbps.hyperlan-pack is powered from the ethernet cable (ieee 802.3af), it can also be powered from a dc source (+9vdc to +75vdc) for a 7w typical consumption.characteristics summary of each unit of the kit   10/100 auto-sensing base tx ethernet port, waterproof m12 8-point ethernet connector, auto mdi/mdix   cross-over, 25 m rj45 cable   up to 40 mbps tcp data rate   5.3 ghz wireless ethernet link (ieee 802.11a)   narrow beam (6°) parabolic directional antenna (23 or 28 dbi depending to models), n-type connector   built-in lightning surge protector   pre-configured wpa2-psk, hidden ssid   administration: snmp, acksys ndm   leds signalling for lan, wlan network activity and 10/100 mode   ip 66 aluminum enclosure (l:80 x l:175 x h:57 mm)   directional antenna diameter: 44 cm (23 dbi), 60 cm (28 dbi)   mast mounting: diameter from 38 to 76 mm   wind loading data: 160 km/h (200 km/h with radome), loading: 50 kg (80 kg with radome)   power from the ethernet cable poe ieee 802.3af or from a dc source (+9vdc à +75vdc), 7w typical   consumption   operating temperature: -25° c to +70° c (hr 0-99%), storage: -40° c à +80° c throughput characteristics versus communication range ethernet throughput (tcp) rangehyperlan-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 regulationsconcerning the maximum allowed output power (eirp) and on environment conditions

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