

# IP-LINK *IP Router for Wireless Applications*

## Wireless transfer of data – last mile TCP/IP

Industrial automation is increasingly being based on Ethernet and TCP/IP communication networks. Accordingly, the control PLCs are today more often equipped with Ethernet interfaces only. For wireless TCP/IP networks SATEL now introduces the IP-LINK IP Router.

The SATEL IP-LINK is a logical extension of the SATELLINK product group. Like the previous product, the I-LINK, it opens a great number of applications in the fields of wireless remote control, surveillance and data transfer.

## Routing data over radio

The IP-LINK together with the SATELLINE radio modem facilitates wireless connections within or between Ethernet-based control and management systems. The IP-LINK converts the data packets transmitted on the Ethernet to a form acceptable to the radio modem, and vice versa.

The IP-LINK has two IP addresses: one for the Ethernet and one for the radio modem interface. Together with a user-configurable routing table this feature makes it possible to route the data packets as desired. The data on the radio modem network can be encrypted for enhanced security and compressed to achieve higher transfer rate.



## Combination of LAN and wireless network brings several advantages

- Radio modems provide an economic solution where cable connection is too costly.
- By means of the SATELLINE radio modems together with the IP-LINK, it is most easy and straightforward to set up new or extend existing "last mile TCP/IP" applications.
- Point-to-Point or multipoint connections to fixed or mobile objects are possible.
- Radio modems provide a practical way of integrating remote or isolated objects into an Ethernet system. Radio connection distances of up to tens of kilometres are possible.

**SATEL Oy** is a Finnish electronics and telecommunication company that specialises in wireless data communications.

It designs, manufactures and markets radio modems for data and alarm transfer systems.

The main user groups include industrial companies, public organisations and private persons.

Today SATEL is one of the Europe's leading manufacturers for narrow band radio modems.

## APPLICATION EXAMPLES



### Industrial automation

Radio modems are used for data transfer between two TCP/IP devices (i.e. computers or PLCs). The IP-LINKs and SATELLINE radio modems make the wireless TCP/IP connection possible.



### Network camera application

In case cable connection is not feasible, camera surveillance data is transferred using the IP-LINKs and SATELLINE radio modems.



### Fixed-object application

Critical operating data from one or more fixed devices is transferred by radio to the Control Centre.



### Mobile application

In a warehouse, information on the locations and tasks of the moving vehicles constitutes an integral part of the overall logistics.

## SPECIFICATIONS

### General

- IP router with two different IP-addresses
- Based on Linux operating system
- Remote configuration with Telnet or SSH
- Compatible with SATELLINE-3AS series radio modems

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