SATEL® I-LINK 100

I/O Converter for SATELLINE Wireless Communication

The I-LINK 100 I/O Converter from Satel Oy starts a new SATELLINK product line. Together with SATELLINE radio modems it facilitates transparent transfer of contact information or analog signals from one location to another. In the Point-to-Point operating mode, the connection is between two points. The I-LINK 100 can also be used in a Point-to-Multipoint mode, for the transfer of information between a Master station and several Slave stations.

From Radio Modems to Applications

The SATELLINK products provide a significant enlargement of the scope of the Satel wireless communication equipment. Building your own application is now even easier than before! With the I-LINK 100 converter and SATELLINE radio modem you can transfer information on a switch position, or the reading of a measuring gauge (analog or digital) from the point of surveillance to the control station, and vice versa.

Modular Design

The I-LINK 100 was designed with the latest technology in the field. It has 4 digital I/O ports with built-in relays and 2 analog I/O ports. For further capacity, extension modules, either of the same type or equipped with 6 digital I/O ports, are available. A maximum of 3 extension modules can be added.
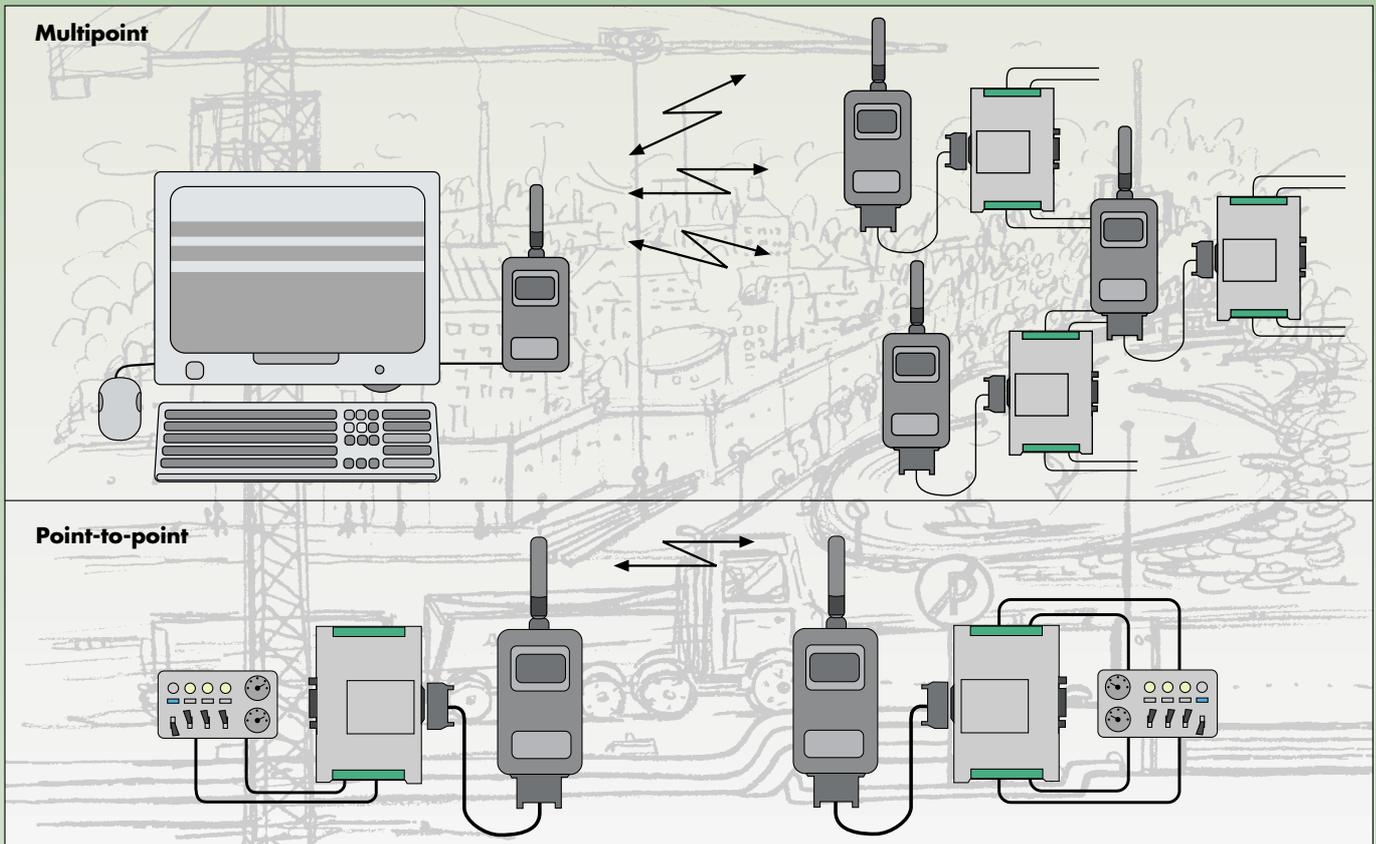
The dedicated I-LINK PC software for Multipoint operating mode facilitates easy system monitoring as well as configuring of the I-LINK 100 parameters to match the system requirements.

Reliable Transmission Secured

Even though the correctness of the data and other messages delivered through SATELLINE radio modems is technically very well secured, a CR-protocol (Confirmation of Reception) is additionally used to ensure that a control command sent by the supervisor was correctly received by the I-LINK at the controlled object site. The receiving end returns the message automatically to the sender station. In case the message does not match with the original, the I-LINK generates a visible alarm. There is also an output for an external alarm system.

Satel Oy is a Finnish electronics and telecommunications 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 Europe's leading manufacturers of narrow-band radio modems.

Multipoint

Point-to-point

Wide Range of Applications

A combination of a SATELLINE radio modem and I-LINK 100 offers you a handy tool for setting up a great number of applications. The most usual applications include telemetry as well as remote control and surveillance. The radio modems are typically placed at locations to which cable connection is impossible or too costly to build. A wireless connection is flexible and easy to set up. The distance between the stations included in a wireless communications network is not decisive. Ordinary range of direct contact is a few kilometres, but distances up to 50 kilometres can be handled by routing the message.

Technical Specifications • SATEL I-LINK 100

Voltage	+9...+30 VDC	
Temperature range	-25...+55 C	
2 Analog inputs	4...20 mA	resistive 200 Ω
2 Analog outputs	4...20 mA	Active
Sample interval	cont...120 min	selectable
Stability	± 1 %	for the whole temp. range
Resolution	12 bits (4096 steps)	
4 Digital inputs	0...35 VDC	resistive 4-5 kΩ
4 Digital outputs	0...250 VAC	relay contacts
Response time	< 500 ms	
Data speed	2400...19200 bps	
Interface	RS-232 ± 15 VDC	
Alarm output	0...35 VDC/30 mA	active + 30 mA
Indicators	ON/OFF, Analog/digital IN/OUT, Alarm	
Connectors	D-15	Modem/Extension units
	Screw	Inputs/Outputs
Extension units	I-LINK 200	I/O points,2 analog/4 digital
	I-LINK 300	I/O points, 6 digital
Mounting	Wall mounting or DIN-rail	
Casing	Stainless steel	
Size L x W x H	123 x 85 x 30 mm	
Weight	120 g	
Compatibility	Satelline radio modems: 2ASxE, 3AS-series, 1870	