

SATEL® I-LINK 100

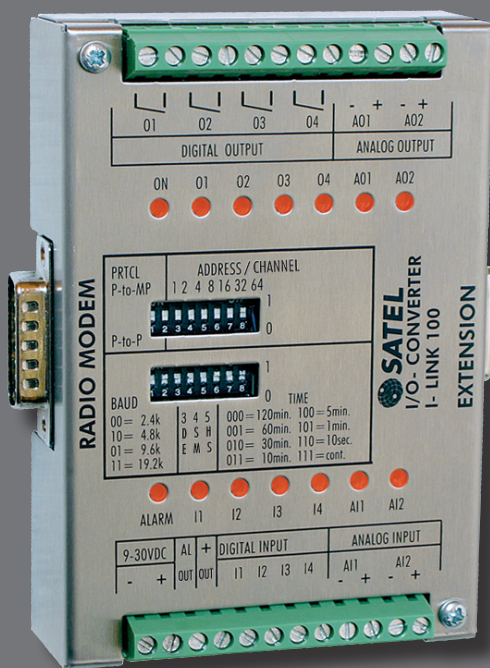
Wireless World – Local Solution

SATEL I-LINK 100 is an I/O-converter, intended to be use together with SATELLINE radio data modems, facilitating transparent transfer of contact information or analog signals from one location to another.

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.

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 transfer of information between a master station and several slave stations.

In order to offer even more flexibility, Modbus compatible version is available too.



With SATEL radio modems, setting up a local data transfer network is quick and cost effective. Your wireless network is independent and free of operator services. The cost of operation is either free of charge or fixed, depending on the frequency used. SATELLINE radio modems are type-approved in over 50 countries. For the latest information, please visit our website www.satel.com.

SATELLINE radio modems are always on line, and provide reliable, real-time data communications over distances ranging from tens or hundreds of metres up to around 80 kilometres. Thanks to a store and forward function, any radio modem in a network can be used as a master station, substation and / or repeater.

SATELLINE radio modem networks are flexible, easy to expand and can cover a wide variety of solutions from simple point-to-point connections to large networks comprising hundreds of modems. Even for expanded networks, only one operating frequency is required.

All SATELLINE radio data modems fulfil RoHS requirements (EU directives 2002/95/EC and 2002/96/EU) as of 1 July 2006.



I/O Converter for SATELLINE Wireless Communication

Modular Design

SATEL I-LINK 100 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 (I-LINK 200) or equipped with 6 digital I/O ports (I-LINK 300), are available. A maximum of 3 extension modules can be added. And a Modbus compatible version of I-LINK 100 is available too.

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.

Expert's help always at hand

With over 20 years of experience, SATEL Oy has grown into one of the leading radio modem manufacturers in the world. As a result of our persistent and innovative work in both product design and international marketing, we now offer an extremely large selection of radio modems, and operate through an extensive and skilled distributor network all over the world.

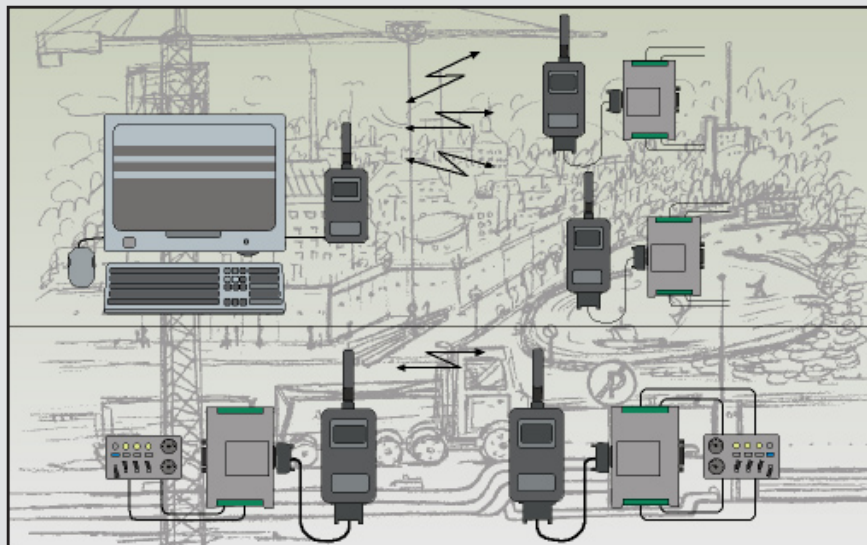
SATEL Oy is an ISO 9001:2000 and ISO 14001:2004 certified company. The quality of our operations and products is kept as flawless and at as high level as possible.

We have also accumulated a considerable amount of know-how in different radio modem applications. So, whatever your application is, do not hesitate to ask for our expert help whenever you need it. SATEL products have been used, for example, at airports, waterworks and electricity plants for various monitoring and control applications, as well as to set up location data-based fleet management systems in cities.

Technical specifications SATEL I-LINK 100	
Operating Voltage	+9 ... +30 Vdc
Temperature Range	-25 °C ... +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 temperature range)
Resolution	12 bits (4096 steps)
Accuracy	<0.4 %
4 Digital inputs	0...35 Vdc
4 Digital outputs	0...250 Vac
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 (2 analog and 4 digital I/Os) I-LINK 300 (6 digital I/Os)
Mounting	Wall mounting or DIN rail
Housing	Stainless steel
Size L x W x H	123 x 85 x 30 mm
Weight	120 g
Compatibility	SATELLINE-2ASxE, 3AS-series, 1870, 1870E

Values are subject to change without notice.

Point-to-multipoint



Point-to-point

Manufactured:



SATEL Oy,
Meriniitynkatu 17, P.O. Box 142,
FI-24101 Salo, FINLAND

Distributor:

Tel. +358 2 777 7800 info@satel.com
Fax +358 2 777 7810 www.satel.com