

IRIS BASE



- **Bi-directional radio data-communication module**
High range, with small amount of data!
- **High level of security**
Coding with acknowledgement!
- **Intelligent data-radio module**
You can activate predefined events and activities via the configuration software
- **High range**
Up to 1500 meters, depending on the topographical situation!
- **Programmable parameters**
With the software delivered, the different parameters can be modified at any time without problems!
- **Many fields of application**
M2M, ZFA, telecontrol systems, remote monitoring systems etc.!
- **Low-cost alternative to cable**
Communication cables are expensive; laying them involves extensive outlay and disturbs on-going operation!
- **Mobile network**
Determined through the IRIS protocol and the Routing function!

Details

The IRIS radio data-communication module is especially suited for the transfer of small amounts of data over large distances. The range of the radio modules in the open air is up to 1500 meters.

The different module parameters, for example frequency or output power, are variable by software at any time. The radio modules automatically encode and decode the IRIS protocol. A very high level of security can be guaranteed by that.

The modules are available for all usual frequencies from 433, 868 MHz and 915 MHz and are thus universally applicable worldwide. Six analog or digital inputs as well as four digital outputs, are available in the standard version. In addition, versions are also available with RS-232 as well as RS-485 interfaces. With compact dimensions of only 42 x 51 x 11 mm, the modules can be effortlessly integrated into almost all devices, machines or measuring equipment.

Typical fields of application:

- Counter remote reading
- M2M (Machine to Machine)
- Sales and play automatic systems
- Telecontrol and remote measuring systems
- Traffic telematics
- Remote monitoring systems
- Measured value transmission
- Storage logistics
- etc.



IRIS Starter-Kit

The IRIS Starter Kit makes a rapid and especially simple entry into the world of radio modules possible, which can also be simultaneously used as an evaluation board. Among other things, range tests can be carried out with this or data records sent between different units. The complete package consists of two kits, two iris radio modules, two serial data cables, two mains cables, as well as an extensive documentation and software on CD-ROM.

You can find further details about IRIS on www.irissystem.de

The IRIS products are developed for monitoring and controlling other systems. IRIS units usually work in networks communicating with each other via radio. An IRIS network can consist of units of different types and usually there is at least one unit with an interface that enables it to communicate with the end-user. It could be for example a serial port, a GSM/GPRS module or an internet connection and a database.

Basic Technical Data:

Transmission speed	4800 bps (standard version)
Range in air	Up to 1500 meters
Temperature range	-25°C to +70°C
Programmable parameters	Frequency, output, I/O, Baudrate, analog inputs
Voltage range	3,3 or 5,0 V
Input sensitivity	-112 dBm (@ 50 ohms)
Current consumption in sleep mode	50 µA
Current consumption in RX/TX	60 – 70 mA
Size without antenna	42 x 51 x 11mm
Modulations type	FSK
Channel pattern	25 kHz

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