

OBID® – RFID by FEIG ELECTRONIC



RFID Reader Technologies:

OBID i-scan® HF/UHF



RFID Readers from the number 1 manufacturer

FEIG ELECTRONIC specialized in contactless identification (RFID), electronic controls and sensor technology. We are a world-wide, leading manufacturer of door control devices, detectors and RFID readers. Our RFID readers are sold under the brand name OBID®.

For over 40 years we have been leveraging our manufacturing and technology expertise to provide highly reliable and innovative products to our customers. In addition to our standard products, we also work with our partners to develop customized solutions to meet individual requirements. We advance the development of essential technology and markets through participation in basic research and

standardization in close cooperation with universities, organizations and industrial partners. As an OEM supplier, our products are only available through the system integrator and reseller channels.

OBID® RFID reader systems set the standard for contactless identification of individuals and objects. All our readers support transponders according to international standards like ISO or EPCglobal as well as well accepted, proprietary transponders. All our readers have international radio approvals according to ETSI or FCC. OBID® offers high functionality for a wide and steadily increasing application spectrum. We offer a comprehensive product line of readers for the following three frequency ranges:

- LF (125 kHz) – OBID® *classic* / OBID® *megalock*
- HF (3.56 MHz) – OBID® *classic-pro* / OBID *i-scan*® HF
- UHF (860 – 956 MHz) – OBID *i-scan*® UHF

Quality assurance is the main objective at FEIG ELECTRONIC. Our quality management system is certified to be in conformance with DIN ISO 9001:2008. We are equally focused on providing individualized support for our partners as they develop

and design their products and solutions. We offer regularly scheduled technology and product training to help our partners and customers independently plan, install and maintain their own applications.



Quality Management
We are certified
Voluntary participation in regular monitoring according to ISO 9001:2008



OBID i-scan® HF/UHF for various applications

OBID i-scan® HF/UHF is a family of readers for identification of 13.56 MHz (ISO 15693, ISO 18000-3 and EPC HF) and UHF (EPC Gen2, ISO 18000-6) transponders. OBID i-scan® HF/UHF satisfies the product requirements for a variety of applications such as retail, logistics and manufacturing.

Some typical OBID® family reader applications are described in the following pages. If your specific application is not listed, please feel free to contact us, as we will most certainly have the applicable RFID components for your requirements.



DESIGN: Top design is natural for FEIG ELECTRONIC.
Several OBID® products won the GOOD DESIGN Award 2008 and the red dot design award 2010 and were nominated for the Design Prize of the Federal Republic of Germany 2010.

SUPPLY CHAIN MANAGEMENT

Highest level of efficiency for retail and logistics: Using a single Smart Label, along with OBID i-scan® HF/UHF reader technology, a tagged product can be traced throughout the entire supply chain – from manufacturing inception through final disposal.

SECURE OBJECT IDENTITY

The increase of counterfeit products in the pharmaceutical industry, mechanical engineering, aerospace industry and the consumer goods industry requires product tracking and authentication solutions. RFID is a key technology in the ongoing battle against piracy and counterfeiting.

HEALTH CARE

The use of RFID technology accelerates medical, logistical and organizational processes in hospitals and laboratories and provides more transparency. Tracking and tracing of medical equipment components, tools, reagents and medications improves patient safety and reduces costs, while improving returns on investment.

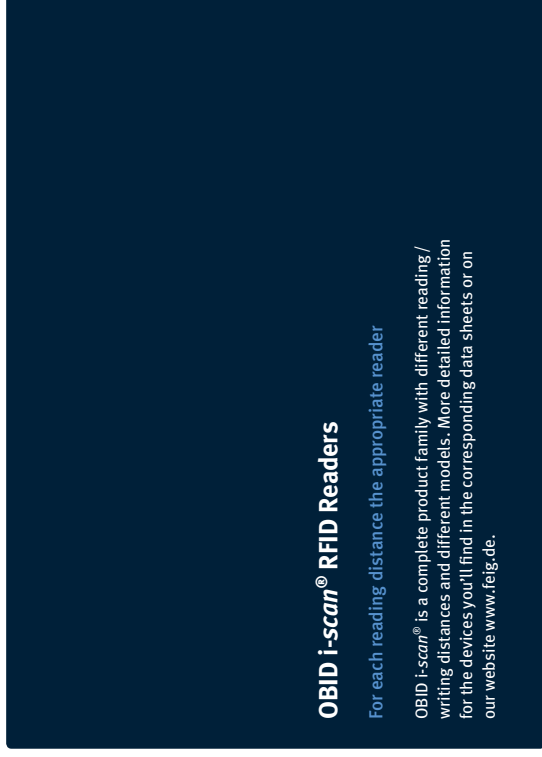
RENTAL SERVICES / LIBRARIES

Make borrowing easy: RFID technology simplifies the automatic borrowing and return procedure. Together with electronic security surveillance systems, theft can be monitored and deterred. OBID i-scan® HF/UHF reader components are especially suited for libraries, laundries and car rental agency applications.

SHOP FLOOR MANAGEMENT

New options for retail industry: important data can be stored as Smart Labels and read by OBID i-scan® HF/UHF reader technology. Examples include supplemental information for sales promotions, customer behavior data for internal production control, and product quantity information for optimal inventory control.

RFID Reader Technologies: **OBID i-scan**[®] HF / UHF



OBID i-scan[®] RFID Readers

For each reading distance the appropriate reader

OBID i-scan[®] is a complete product family with different reading / writing distances and different models. More detailed information for the devices you'll find in the corresponding data sheets or on our website www.feig.de.

HF LONG RANGE READERS

The HF Long Range Readers ID.ISC.LR2000-A and ID.ISC.LRM2000 achieve reading / writing distances of up to 2 meters, depending on the antenna configuration. Both readers support single loop and gate antennas that can be combined and even cascaded by using multiplexers. The Long Range Readers offer a wide variation in operation modes and interfaces, and therefore provide many options for usage and integration of the readers.

UHF READERS

As with our HF readers, Feig also provides a complete portfolio of UHF readers. Proximity readers include the ID.ISC.MU02 Short Range Reader Module and the ID.ISC.PRHD02 HF / UHF Handheld Reader. Mid-Range Readers are available with integrated antennas or with connectors for external antennas. The ID.ISC.LRU3000 and ID.ISC.LRU3500, which are Long Range Readers that complete our product line, are ETSI and FCC certified, and therefore available in EU and FCC versions. Various external antennas with varying opening widths complete the UHF range.

ACCESSORIES

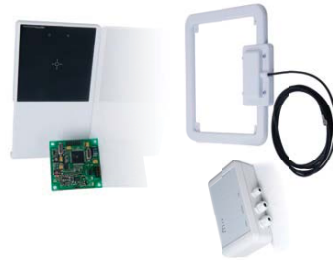
The OBID i-scan[®] reader family is completed by a variety of accessories: we offer power supply units, antenna- and interface cables, mounting kits, chargers and multiplexers for connecting several antennas to one reader. For operation and integration of the hardware devices, several firmware variants as well as Java-, Linux- and .NET libraries are available.

HF PROXIMITY READERS

Readers with integrated antennas guarantee reliable identification of transponders within near field applications. We offer Reader modules (with the option to connect external antennas) for integration into printers, hand-helds, or terminals. We also offer housed readers and several hand-held devices (with interface cables or Bluetooth interface). The maximum reading / writing distance for proximity readers is approximately 18 cm.

HF MID RANGE READERS

Mid Range Readers are operated with external antennas of different sizes and protection classes. In addition to plug & play solutions (e.g. MR201 and the Pad antenna ANT340 / z40), we also offer more advanced devices like the MR200. The MR200, just like its 'big brother' from the Long Range product family, offers a Buffered Read Mode (data filtering and storage) and several interfaces. The maximum reading / writing distance for Mid Range readers is approximately 70 cm.



Service Support +49 6471 3109-0

We can help. Our service support is available Monday through Thursday from 8:00 to 16:00 clock and on Friday from 8:00 to 13:00 clock.

Naturally our staff is available for further information and assistance in choosing the appropriate readers and transponders for your application. Please call us or send an e-mail to: obid-support@feig.de

