RFID Reader Technologies:

**OBID i-scan® HF/UHF**
RFID Readers from the number 1 manufacturer

FEIG ELECTRONIC specializes 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.

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.

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 (13.56 MHz) – OBID® classic-pro / OBID i-scan® HF
- UHF (860 – 956 MHz) – OBID i-scan® UHF

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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 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.
**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. MR101 and the Pad antenna ANT340/240), 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.

**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.

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**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.PRD02 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.

**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.
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