# ICODE® ILT

## SL2S1402_SL2S1502_SL2S1602

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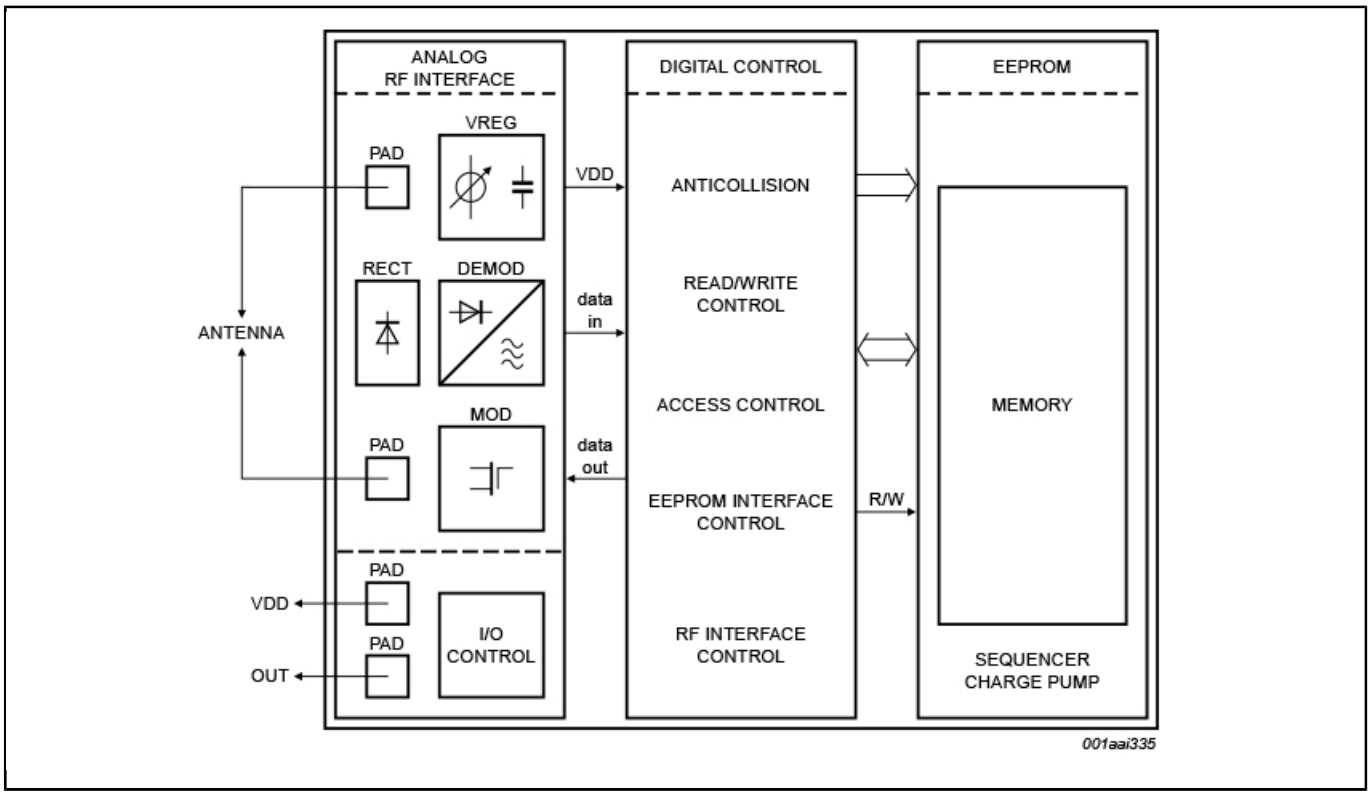
The ISO 18000-3 mode 3/EPC Class-1 HF standard allows the commercialized provision of mass adoption of HF RFID technology for passive smart tags and labels. Main fields of applications are supply chain management and logistics for worldwide use.

The ICODE ILT is a dedicated chip for passive, intelligent tags and labels supporting the ISO 18000-3 mode 3 RFID standard. It is especially suited for applications where reliable identification and high anti-collision rates are required.

The ICODE ILT is a product out of the NXP Semiconductors ICODE product family. The entire ICODE product family offers anti-collision functionality. This allows a reader to simultaneously operate multiple labels/tags within its antenna field. A ICODE ILT based label/tag requires no external power supply.

Its contactless interface generates the power supply via the antenna circuit by inductive energy transmission from the interrogator (reader), while the system clock is extracted from the magnetic field. Data transmitted from interrogator to label/tag is demodulated by the interface, and it also modulates the interrogator's magnetic field for data transmission from label/tag to interrogator. A label/tag can be operated without the need for line of sight or battery, as long as it is connected to a dedicated antenna for the targeted frequency range. When the label/tag is within the interrogator's operating range, the high-speed wireless interface allows data transmission in both directions.

## SL2S1402_SL2S1502_SL2S1602 Block diagram Block Diagram




View additional information for ICODE® ILT.

**Note:** The information on this document is subject to change without notice.