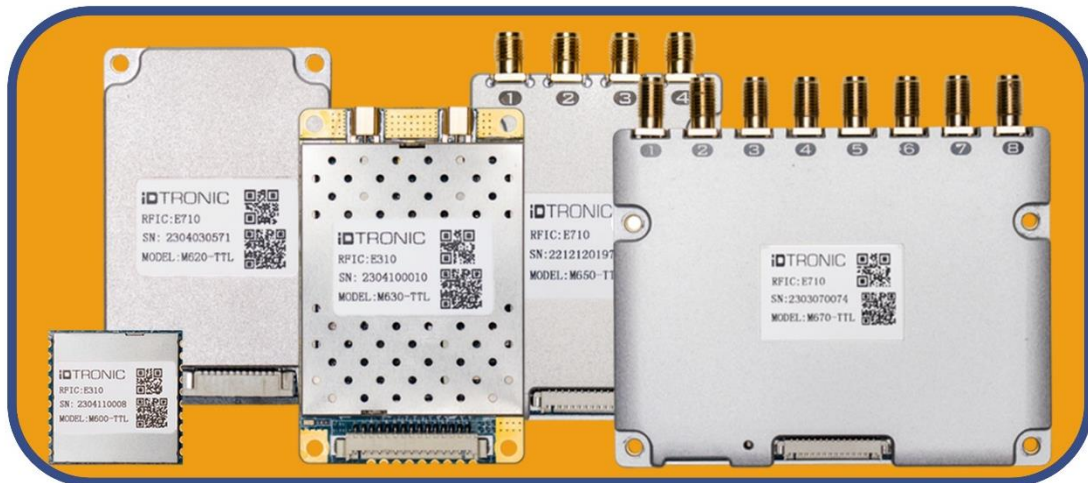


► **iDTRONIC EMBEDDED UHF READER PRODUCT LINE**  
**More Options & Innovation für Industry 4.0 Applications**



**RFID UHF EMBEDDED PRODUCT LINE**



Last year, iDTRONIC, Europe's leading supplier of embedded RFID modules, developed and released a new series of high-performance **UHF (840 – 960 MHz) RFID reader modules**. Based on the new generation of IMPINJ reader chips, these modules have been successfully integrated into numerous Industry 4.0 applications (incl. SMD Manufacturing) by system integrators and engineering firms worldwide. To mark the **first anniversary** of this UHF embedded product line, iDTRONIC has further optimized its offering by adding **innovative interface boards**, an all-in-one **developer board** and **IC chip customization options**.

Regardless of the application environment, be it tracing assets in industrial processes or identifying merchandise in a retail store, these five modules offer enormous flexibility and reliability. The compact form designs (incl. SMD), high reading rates **up to  $\geq 1000$  tags/s** and powerful **RF outputs of 30-33 dBm** are just a few reasons why these embedded modules are ideal for industrial automation. In addition, they support EPC UHF Class 1 Gen 2 (ISO 18000-63) protocol tags as well as 98% of UHF transponders on the market.

► INDIVIDUALLY-CONFIGURED RFID EMBEDDED MODULES

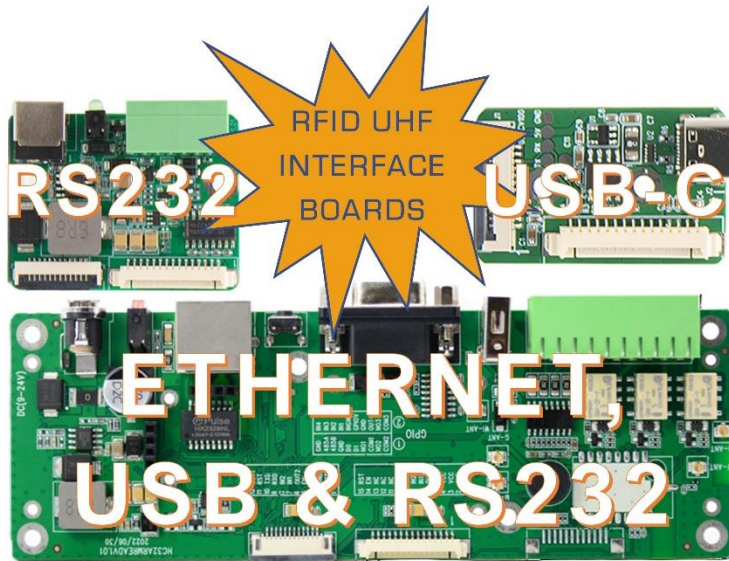
All UHF Modules (except the M630) are now available in three versions corresponding to the **IMPINJ IC Chip** (E310 / E510 / E710) best suited for the industrial application at hand. The table below outlines some of the different characteristics of the three RFID reader chips.

Cutting-Edge IC Options of iDTRONIC UHF Modules:

			
RFID Chip Option	<b>IMPINJ E310</b>	<b>IMPINJ E510</b>	<b>IMPINJ E710</b>
Frequency	UHF: ETSI/EC (865.6 - 867.6 MHz)   FCC/US (902 - 928 MHz)		
Supported Standards	ISO/IEC 18000-63 (EPC Gen 2v2 UHF)		
RF Sensitivity	-73 dBm	-80 dBm	-87 dBm
Reading Rate	≥ 350 tags/s	≥ 600 tags/s	≥ 1000 tags/s
Applications	Mobile & Desktop Applications / USB-powered Devices / Short Range	Industrial Applications and Devices / Logistics and Asset Tracking	Demanding Retail & Inventory Applications / Long Range Reading

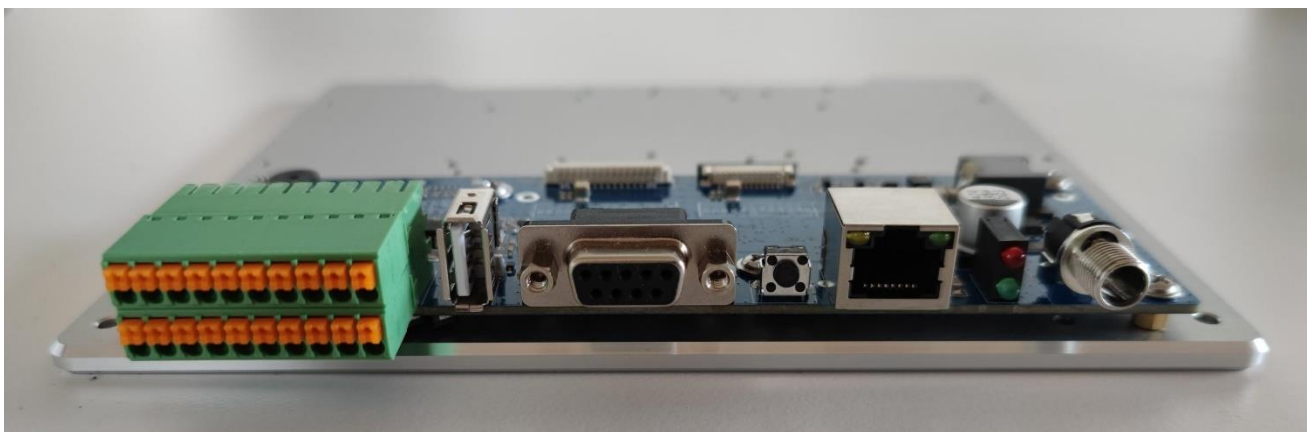
► THE RIGHT CONNECTION – iDTRONIC INTERFACE BOARDS

To facilitate the initial RF prototyping phase and the integration in client devices and machines, iDTRONIC offers **embedded UHF INTERFACE BOARDS** that are industrial-grade design and compatible with all their UHF Embedded Modules. Standard communication interfaces such as **USB, USB Type-C, RS232** and **TCP/IP** are supported by the Interface Boards, which simplifies the process of communicating with other electronic components.



#### ► UHF DEVELOPER BOARD: THE ULTIMATE TESTING KIT

The **aluminium-plated** developer board offers lots of threaded holes to fix modules with screws, thereby fostering **heat dispersion** and **convenience**. This all-in-one interface board can be directly connected to iDTRONIC RFID modules and provides USB, RS232, TCP/IP, and RS485 communication interfaces. Based on the board, the performance of the RF module can be easily evaluated, and tested to perform various operations (GPIO, reset, power-on control, etc.). Combine the developer board with our **UHF Antennas** and **UHF Tags** to make an **all-encompassing kit** that gets the most out of your RFID application.



**► 5 FORM DESIGNS TO CHOOSE FROM**

Our UHF reader modules [M600 | M620 | M630 | M650 | M670] are specially designed for highly accurate performance. With **one to eight antenna ports**, these modules provide flexibility as well as stable operation, even in harsh environments. The RFID modules are **compact in size, low in power consumption**, and high in **stability**. They are also resistant to electromagnetic interference and good at heat dispersion. All 5 UHF modules are particularly well-suited for challenging industries like warehousing, logistics, apparel, production lines and the like. These high-performance reader modules make it faster for users to read multiple UHF RFID tags in a crowded environment and ensures consistency in tag reads. Furthermore, they comply with both European and US regulatory requirements, simplifying global operations.

**More Information on Embedded UHF Readers**

**Product Website:** <https://idtronic-rfid.com/en/embedded-rfid-2/rfid-uhf-modules/>

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