



Identification systems

# Far-sighted: UHF RFID system with integrated antenna



RFID UHF



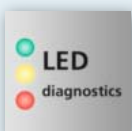
**Integrated web server for configuration, diagnostics and monitoring**

**Connection to IT systems and PLC systems**

**Adjustable range of up to 3 m for several transponders at once**

**Antenna not affected by installation in metallic environments**

**RFID UHF system EPC Global – Gen2, ISO/IEC 18000-63**



## Far-sighted RFID solution

The compact UHF RFID system is suitable for applications requiring long ranges. Convenient: Evaluation unit and antenna are integrated in one compact housing. This saves space and simplifies installation. In material logistics, for example, the device can determine whether the right material is available in the required quantity for the production order. The system can be used to check inflow and outflow in high rack storage areas. The device can also be used in plant control. It reads product-specific machine parameters from the ID tag attached to the product. The individual setting of the machine helps to increase productivity and avoid downtime.



## Advantages of ifm's UHF RFID solution:

### Robust and expandable

Antenna, evaluation unit and process interface are integrated in one compact, robust housing with protection rating IP 67. This makes the system perfectly suited for use in harsh industrial environments.

### Powerful antenna

Thanks to the internal antenna with circular polarisation, the device can be installed in metallic housings without reception being affected.

### Integrated web server

The read/write units feature an integrated web server. Users can log in via an HTTP address to fully access the device.

### Universal interface

The UHF RFID compact unit is ideal for direct connection to PCs, industrial PCs or PLCs that have no standardised fieldbus interface.

### Additional digital inputs

The unit has two additional digital inputs and outputs, e.g. for controlling a light tower.

### Status LEDs

A 5-digit LED bar graph display provides information about the tags detected.

### Applications








The DTE804 is ideal for track and trace and traceability applications, e.g.:

- product tracking
- access control
- asset management
- tracking of material
- assembly stations

### Advantages:

- increase in productivity
- adherence to delivery dates
- material movement management
- avoidance of standstills
- increase of uptime

## Products

Type	Description	Order no.
<b>UHF RFID system</b>		
	Compact unit, PROFINET interface	<b>DTE801</b>
	Compact unit, EtherNet/IP interface	<b>DTE802</b>
	Compact unit, TCP/IP interface	<b>DTE804</b>
<b>Mounting accessories for DTE804</b>		
	Mounting bracket, stainless steel (1.4301 / 304)	<b>E80335</b>
	Mounting plate, stainless steel (1.4301 / 304)	<b>E80336</b>
	Mounting rod, stainless steel (1.4301 / 304)	<b>E80337</b>
<b>Connection technology</b>		
	Jumper cable, Ethernet, cross-over patch cable, 2 m, PVC cable, M12 / RJ45	<b>E11898</b>
	Jumper cable, Ethernet, patch cable, 10 m, PVC cable, M12 / RJ45	<b>E12204</b>
	Ethernet jumper, 2 m, PVC cable, M12 / M12	<b>E21138</b>
<b>Selection RFID transponders</b>		
	ID tag/R30X10/04 – 865...870 MHz, 96 bits	<b>E80353</b>
	ID tag/73.5X21.2/04 – 1000 pcs on reel	<b>E80386</b>
	ID tag/139 x 53 x 15/04	<b>E80393</b>
	ID tag/174 x 70 x 17.6/04	<b>E80394</b>

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