

Multicode reader verifies and analyses codes and text



Optical identification



Versatile use for quality and process control in production and logistics

Detects and verifies text and codes alike

High performance thanks to fast evaluation of several different codes and text passages in one image

Reliable detection even in case of extraneous light and challenging surfaces

Easy parameter setting on the device or via the ifm Vision Assistant











To the video: ifm.com/gb/o2i

Universal solution for production and logistics

The O2I multicode reader detects 1D and 2D codes as well as text elements and analyses their quality within a few milliseconds. The number of elements to be detected is irrelevant as the O2I can evaluate several codes or text elements as well as their combination with only one image capture. This makes the multicode reader a universal solution in production and logistics processes where the presence of codes and text information is to be checked for quality or used for product tracking.

The O2I can be quickly set up for simple applications directly on the device. More complex tasks can be implemented just as easily by means of the award-winning ifm Vision Assistant.



Increase product and process quality

Make processes transparent

Be informed about what is going on, when and where

Optimise material handling

Provide sufficient material in the correct production step

Assure quality

Reliably detect, validate and check the readability of relevant text imprints thanks to the anchor function.

Precise delivery schedule

Data-based control of timed process flows.





Configuration via smartphone app

04.2022

A smartphone app (iOS, Android) is available for basic configuration of the device. The user can e.g. use it to define the trigger or IP address.

Based on these settings, a Data Matrix code is generated on the smart phone's display. When this where the right to make the right to make the right to make the right to the configuration is automatically view, the configuration is automatically significant to the configuration is automatically significant to the right to make the right to m code is held into the multicode reader's field of view, the configuration is automatically adopted.

Products		
Туре	Description	Order no.
Multicode rea	ader: Ethernet/IP, TCP/IP	
	Standard lens, red light	O2I500
	Standard lens, infrared	O2I501
	Wide-angle lens, red light	O2I502
4000000	Wide-angle lens, infrared	O2I503
	Telephoto lens, red light	O2I504
	Telephoto lens, infrared	O2I505
Multicode rea	ader: PROFINET, TCP/ IP	
	Standard lens, red light	O2I510
	Standard lens, infrared	O2I511
	Wide-angle lens, red light	O2I512
4000000	Wide-angle lens, infrared	O2I513
	Telephoto lens, red light	O2I514
	Telephoto lens, infrared	O2I515
Accessories		
	Mounting set for multicode reader	E2D500
	Mounting set for illumination unit	E2D501

O2D931

Illumination unit, 193 x 136 x 75 mm, red light, cyan light, M12 connector

> Illumination unit, 256.8 x 197 x 106.7 mm, red light, cyan light, M12 connector

O2D933

Connection technology



Y connection cable, adapter cable for O2I5xx, trigger sensor, 0.4 m PUR cable

EVC847



Y connection cable, adapter cable for external illumination, 0.4 m PUR cable

EVC848







Complete set: product detection for incoming and outgoing goods



Track & Trace Gate system solution



Clear assignment of products to incoming and outgoing goods

Avoidance of wrong deliveries through transparency of the goods flow

Standardised interface to SAP / ERP

Ready-to-start application package with easy, graphical set-up

With direction detection and optional 3D volume measurement



Logistics made simple

The complete solution for incoming and outgoing goods includes all the RFID components required for automatic product detection. Optional sensors offer the possibility to determine the direction of movement and even the volume of the products.

Optical and acoustic signalling devices support the processes. Reports and alarm messages can be relayed directly to the commodity management system.

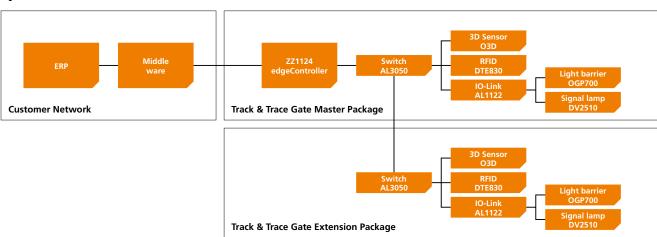
Easy extension

The basic package with the central edgeController can be supplemented at any time by extension packages for up to 10 gates.



Description	Extensibility	Triggering	Direction detection	Order no.
Master package with edgeController	For 1 gate, extensible with max. 9 extension packages to control 10 gates per master package	O3D sensor	•	ZZ0814
Extension package for ZZ0814 or ZZ0816	1 extension package required per additional gate	O3D sensor	•	ZZ0815
Master package with edgeController	For 1 gate, extensible with max. 9 extension packages to control 10 gates per master package	Laser retro-reflective sensor	•	ZZ0816
Extension package for ZZ0814 or ZZ0816	1 extension package required per additional gate	Laser retro-reflective sensor	•	ZZ0817
UHF gate edgeController	Spare part for ZZ0814 and ZZ0816	edgeController with pre-installed RFID software	-	ZZ1124

System overview



Transparent flows of goods

By using smart RFID incoming and outgoing goods inspection, flows of goods can be displayed transparently and transferred to a smart system. This allows optimising loading times, avoiding errors and saving costs.

Advantages of smart incoming and outgoing goods inspection

- Clear assignment of products to incoming and outgoing goods.
- Avoidance of wrong deliveries through transparency of the goods flow.



Further advantages

Intelligently networked sensors

The system allows the detection of direction, optionally via 3D sensors or light barriers. Besides, 3D volume measurement is possible as an option.

Individual real-time support of edge device and ERP

Simple interface through file transfers between edgeController and ERP for networked logistics processes. The edgeController including interface to the customer's ERP system is included in the scope of delivery.

Rapid implementability and extension

The system components and their functions are put into operation plug & play. Additional gates can be added to the existing edgeController without much effort via a switch.

Suitable for robust applications

The ifm gate solution consists entirely of components suitable for industrial use with protection rating IP 65 / IP 67.

• Cost and error savings.
• Cost and error savings.

ifm.com/gb/gate

For further technical details, please visit: ifm.com



RFID for Industry 4.0: IoT solutions with direct connection to the IT infrastructure



RFID Systems



Lean infrastructure: direct data exchange between RFID system and IT level

Standard Ethernet protocols simplify integration and interoperability

Product diversity covers any requirement at any location

IoT Core Visualizer simplifies the selection and transmission of data point URLs



Track-and-trace IT solution without detours

RFID systems are an excellent solution when it comes to product tracking in intralogistics. The new IoT-enabled RFID solutions of the DTExx5 series now make the implementation of track-and-trace systems even simpler and leaner thanks to establishing a direct connection to the IT system.

IoT Core Visualizer: easy access to data point URLs

The portfolio comprises compact UHF and HF solutions as well as an HF evaluation unit for up to 4 antennas. All units come with an Ethernet interface for bidirectional transfer of information via HTTP, JSON, or MQTT. Thanks to the concise IoT Core Visualizer, users can easily access the URL of each data point. This makes integration into their own software application very easy to achieve.



Туре	Description	Order no.
0 1-6 0 1-6 0 3-6-3 0 1 0 10	RFID HF evaluation unit for up to 4 antennas	DTE105
	RFID HF compact unit	DTE605
	RFID UHF compact unit EU	DTE805
	RFID UHF compact unit US/CA	DTE905

ifm IoT Core: easy IT integration

With ifm's IoT Core, devices can make data, events and services available to interested parties. The ifm IoT Core supports various protocols in the Internet ecosystem such as HTTP, MQTT and JSON.

The right solution for every application:

DTE105 HF and antennas

Applications are found in production lines where the evaluation unit is used for material flow control, or in guided material handling systems for coding of workpiece carriers.

DTE605 HF compact unit

The compact unit is ideal for long writing/reading distances.

DTE805/905 UHF compact unit

The compact UHF RFID system is suited for long ranges. In material logistics, for example, the device can determine whether the right material is available in the required quantity for the production order.

Connection technology

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Accessories

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