

# Euro Plant Tray Label Information



## EPT 200 (6/CC Layer)



8 – 12 x 9-10,5 cm  
GTIN 4262480837699  
GRAI 800304262480837699XXXXXXXX



6 – 8 x 10,5-13 cm  
GTIN 4262480837682  
GRAI 800304262480837682XXXXXXXX

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## EPT 400 (5/CC Layer)



8 – 10 x 10,5-13 cm  
GTIN 4262480837750  
GRAI 800304262480837750XXXXXXXX



10 x 12 cm  
GTIN 4262480837774  
GRAI 800304262480837774XXXXXXXX



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## Structure and properties:

Manufacturing process:	digital print, multi color, CMYK, at least 812 dpi
Base material:	Polyolefine or alternatives, in mould label
Antenna+chip	UHF, Chip R6P
Surface:	uv- and chemical resistant laminate, no lotus effect, can be covered with adhesive
Measurements:	45mm x 16mm
Thickness of label:	0,275mm +/- 18µ

## Technology RFID/UHF

Operating frequency:	860-960 MHz EPC Class 1 Gen 2 conform
Memory size:	128 bit EPC

## Print data/Coding:

Barcode 1D:	EAN 13; 13 digits
Barcode 2D:	GS1 Datamatrix, 26 digits
Chip coding:	Chip programmed with the 2D code information according to GS1 Data standard

## Advantages of RFID

By utilizing RFID, the movement of EPT trays and thus the management of inventories can be conducted quickly and with minimal barriers. RFID scanners capture the quantities of trays as well as individual serial numbers. This eliminates the need for visual counting or the more time-consuming scanning of 2D Data Matrix codes.

In addition to quantity recording, this opens up further automation possibilities, such as tracking & tracing of products or automated distribution processes. The use of appropriate RFID handheld devices for capturing the trays, followed by the transfer of the recorded data to the respective user systems via IoT software, is essential.



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# RFID-Handhelds for the EPT project



## Hardware

The market offers a wide range of potentially suitable devices, which, depending on the model, can also withstand harsh environmental conditions. The following provides a comparison between a high-end device established in industrial settings and a more affordable device with impressive performance values.



## Software

Our IoT software solutions offer various standard interfaces as well as handheld applications that can be easily adapted to meet specific customer requirements with minimal effort.

A cost estimate can be provided after the project initiation and the creation of a system description.

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# RFID-Handhelds für Projekt EPT



	<b>ZEBRA MC3330xR UHF-RFID-Reader</b>	<b>SUNMI L2s PRO UHF/ NFC-RFID Reader</b>
<b>Measurements</b>	164 mm x 75 mm x 211 mm	54.4 mm x 74.6 mm x 17.1mm* (*without pistol grip)
<b>Weight</b>	680 g	250 g (without pistol grip)
<b>Display</b>	4-Zoll-WVGA-Color display	5,5-Zoll-HD+ (1440*720) Color display
<b>CPU</b>	Qualcomm Snapdragon™ 660 Octa-Core, 2,2 GHz	Cortex-A53, octa-core (4*2.0GHz+4*1.5GHz)
<b>Power Supply</b>	Li-ion battery, 3,6 V, 7000mAh	Li-Ionen-battery, 3,8V, 5000mAh
<b>Operating System</b>	Upgrade up to Android 14	SUNMI OS (based on Android 12)
<b>Memory</b>	4 GB RAM/32 GB Flash	GB RAM+32GB ROM 4GB RAM+64GB ROM 6GB RAM+128GB ROM (optional)
<b>Operating Temperature</b>	-20 °C bis 50 °C	-20 °C bis 50 °C
<b>Storage Temperature</b>	-40 °C bis 70 °C	-40 °C bis 70 °C
<b>Sealing</b>	IP 54 (dust and splash-proof)	IP 68 (dust and splash-proof)
<b>Drop Resistance</b>	Drop onto concrete from 1.5 m	Drop onto concrete from 1,5 m
<b>Tumble Specification</b>	1000 Tumbles from 0.5 m	N/A
<b>Scanning</b>	<b>RFID</b> (EPC Class 1 Gen2; EPC Gen2 V2; ISO-18000-63) <b>Barcode</b> (1D, 2D)	<b>RFID</b> (EPC Class 1 Gen2; EPC Gen2 V2; ISO-18000-63) <b>NFC</b> (ISO/IEC 14443, ISO15693) <b>Barcode</b> (1D, 2D)
<b>Data Transmission</b>	<b>WLAN</b> (2,4GHz/5GHz IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v2/w/mc2; Wi-Fi™-certified; IPv4, IPv6, 2x2 MU-MIMO) <b>Bluetooth</b> (Class 2, Bluetooth v5.0 and Bluetooth Low Energy (BLE))	<b>Cellular connectivity</b> (2G&3G&4G) <b>Wi-Fi</b> (2,4GHz/5GHz IEEE 802.11 a/b/g/n/ac) <b>Bluetooth</b> (Class 2, Bluetooth v5.0 and Bluetooth Low Energy (BLE))
<b>Accessories (incl.)</b>	single charging station with spare battery charger	single charging station

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The Winckel logo, consisting of the word "winckel" in a blue, lowercase, sans-serif font, with a stylized blue arrow pointing to the right above the letter 'k'.  
TRACK & TRACE EXPERTS