



METRIC.OPTIMA BL

## Top Performance On A Tiny Footprint

Ticket printer, validator, payment terminal & Automatic Vehicle Location in a box

# Smallest Ticket Printer And On-Board Computer

## BENCHMARKS

- New arrangement of passenger interface: Highly ergonomic, DDA compliant, privacy friendly, specifically designed to accommodate driver assault screens
- Driver interface supports **capacitive touch** or keyboard
- Low profile, **reducing blind spot** in driver sight
- High-speed **RFID & printer**, reducing boarding times
- Market leading **ITSO performance**, support of **Calypso, VDV-KA**
- **Integrated WIFI-antenna** 802.11a/b/g/n cuts down installation effort
- **Integrated on-board computer** with **AVL & ITCS** functionality
- **Unique paper capacity** allowing paper as wide as credit card length and reducing down time and paper handling



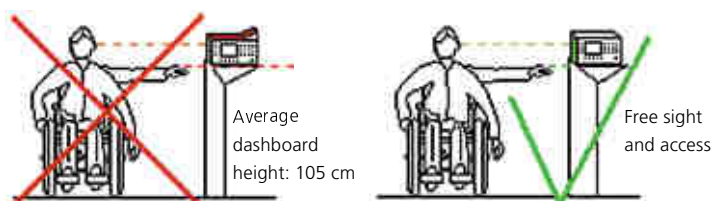
## SERVICE

METRIC offers customised service packages, from telephone support through to a complete on-site service. On request, we will embed your existing service structures that can be integrated into an overall concept ensuring optimal technical support.

## BACK OFFICE SYSTEM

The back office system metric.office is based on fully configurable software capable of providing detailed statistical analysis.

- Highly modularised
- Flexible ticket layout editor
- Powerful tariff and route network administration capable of handling even the most complex tariff systems
- Standardised hardware and network components – scalable
- Detailed statistical sales analysis, using customisable selection criteria



## TECHNICAL DATA\*

### Processors

- Main processor: 800 MHz 32 bit RISC CPU PXA320, 1 GB Flash, 256 MB SDRAM, SDHC slot
- 32 Bit real-time processor for time critical functions
- Crypto-processor for card processing operations

### Driver interface

8" SVGA colour display (800 x 600), capacitive touch screen or  
5.7" VGA colour display (640 x 480) with 46 keys (10 softkeys, 12 free programmable function keys)

### Passenger interface

Reflective customer display with white backlighting, graphics capable, 98 mm x 26 mm, i.e. freely configurable character size, traffic light style and progress indicator for card status

### Audio

True-sound integrated loudspeaker, audio output

### Printer

- Configurable ticket format, width up to 86 mm, grammage 60–120 gm<sup>2</sup>, 110 mm roll diameter (up to 2400 tickets in credit card format)
- Graphics capable 200 dpi thermal printer
- Ticket dispenser speed max. 250 mm/s
- Integrated cutter

### Interfaces

- RS 232, RS 422, RS 485, optional IBIS
- Ethernet, USB 1.1. Master, USB 1.1 Slave
- Digitale I/O (6 x), WLAN 802.1 a/b/g/n, WPA2
- Programmable numeric storage in base plate
- Connector for metric.smartfare validator
- Integrated reader for contactless chip cards (RFID)
- RFID card theme standards: ISO 14443a/b (ISO 15693 on request), VDV-KA, ITSO
- Integrated ISO7816 high-speed SAM reader with 1 or optionally 4 slots, 5/3/1.8 V

### Casing

- Compact ergonomic design
- Designed for right- and left-hand drive
- Colour RAL 7046
- IP 54, UL94-V0 5VB

### Size [in mm]

227 x 255 x 196 (W x D x H)

### Base plate

Mechanical raster catch, lockable

### Operating voltage

- 18–36 V DC, Isleep < 20 mA, Inom < 2 A, reverse polarity protection
- Self-charging internal back-up battery, battery life 5 years

### Options/accessories

Base plate with vehicle ID tag, GPS Receiver, GSM/GPRS/3G vehicle modem, on-board network switch, hole punch, metric.smartfare contactless pole mount validator, WIFI depot ground equipment, Server PC

\* List of features includes optional items.

**METRIC AG**  
Rotenburger Straße 20  
30659 Hannover  
T +49 511 6102-0  
F +49 511 6102-411  
rl.is@metric-group.com  
www.metric-group.com

**Metric Group Ltd**  
Metric House  
Westmead Industrial Estate  
Westlea, Swindon, SN5 7AD  
T +44 1793 647931  
F +44 1793 647932  
info@metricgroup.co.uk  
www.metricgroup.co.uk

