

almex.optima bl

TOP PERFORMANCE ON A TINY FOOTPRINT

Ticket printer,  
validator, payment  
terminal & AVL in a  
box



### BENCHMARKS

- New arrangement of passenger interface:  
Highly ergonomic, DDA compliant, privacy friendly, specifically designed to accommodate driver assault screens
- High-speed RFID & printer, reducing boarding times
- Supports *payWave* & *PayPass™* (EMV contactless)
- Integrated on-board computer supporting AVL & ITCS
- Market leading ITSO performance, support of Calypso, 3DES, VDV-KA
- High resolution colour driver display
- Low profile, reducing blind spot in driver sight
- Unique paper capacity allowing paper as wide as credit card length and reducing down time and paper handling
- Windows CE 6.0
- Optional display area for paper printed passenger information label





Optional integrated hole punch



### Back office system

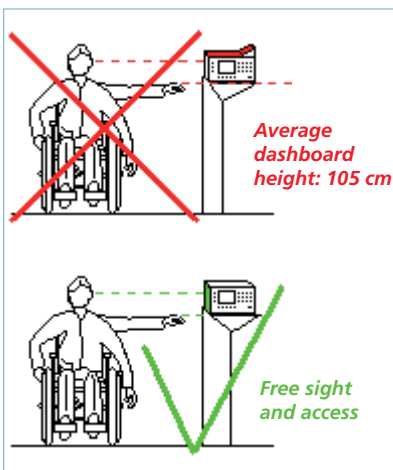
The back office system almex.office is based on fully configurable software capable of providing detailed statistical analysis.

- Highly modulated
- 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, depending on load
- Detailed statistical sales analysis, using customisable selection criteria

### Service

Almex 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.

Passenger interface and DDA compliance:



## TECHNICAL DATA

<b>Processors</b>	<ul style="list-style-type: none"> <li>• Main processor: 800 MHz 32 bit RISC CPU PXA320, 1 GB Flash, 256 MB SDRAM, SDHC slot</li> <li>• 32 Bit real-time processor for time critical functions</li> <li>• Crypto-processor for card processing operations</li> </ul>
<b>Driver interface</b>	145 mm (5,7") colour display with 46 keys (10 softkeys, 12 programmable function keys) or 203 mm (8") VGA touch screen
<b>Passenger interface</b>	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 (ITSO, EMV Contactless)
<b>Audio</b>	True-sound integrated loudspeaker, audio output
<b>Printer</b>	<ul style="list-style-type: none"> <li>• Configurable ticket format, width up to 86 mm, grammage 60–120 gm<sup>2</sup>, 100 mm roll diameter (up to 2400 tickets in credit card format)</li> <li>• Graphics capable 200 dpi thermal printer</li> <li>• Ticket dispenser speed max. 250 mm/s</li> <li>• Integrated cutter</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• RS 232, RS 422, RS 485</li> <li>• Ethernet, USB 1.1. Master, USB 1.1 Slave</li> <li>• Digital I/O (6x), WLAN 802.11g</li> <li>• Programmable numeric storage in base plate</li> <li>• Connector for almex.smartfare reader</li> <li>• Integrated reader for contactless chip cards (RFID)</li> <li>• RFID card standards: ISO 14443a/b, ISO 15693</li> <li>• Integrated ISO7816 high-speed SAM reader with 1 or optionally 4 slots, 5/3/1.8 V</li> </ul>
<b>Casing</b>	<ul style="list-style-type: none"> <li>• Compact ergonomic design</li> <li>• Colour RAL 7046</li> <li>• IP 54, UL94-V0 5VB</li> </ul>
<b>Dimensions [in mm]</b>	230 x 260 x 185 [W x D x H]
<b>Base plate</b>	Mechanical raster catch, lockable
<b>Operating voltage</b>	<ul style="list-style-type: none"> <li>• 18–36 V DC, I<sub>sleep</sub> &lt; 50 mA, I<sub>nom</sub> 500 mA, I<sub>peak</sub> 6 A, reverse polarity protection</li> <li>• Self-charging internal back-up battery, battery life 5 years, replaceable</li> </ul>
<b>Options/accessories</b>	Base plate with vehicle ID tag, GPS Receiver, GSM/GPRS/3G vehicle modem, on-board network switch, hole punch, almex.smartfare contactless pole mount validator, WIFI depot ground equipment, Server PC

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