

## Dijital TANIMA Sistemleri

MON7 -driver display with touchscreen and NFC reader

**“Multi mission”**

Web document



# MON7 – 7 inch display with touchscreen and NFC reader

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## 1. Overview

MON7 is a 7 inch LCD driver display for use in Public Transport on-board applications:

- AFC (Automatic Fare Collection),
- Video surveillance,
- Other

It is based on 1024x600 IPS LCD with wide viewing angle (170 degrees) and high brightness (600 nits). Apart from these, MON7 with integrated its

- 2W speaker,
- Capacitive touch screen,
- NFC reader

offers convenient user interface and driver authorization features.

MON7 has two video input options:

- HDMI,
- VGA

MON7 is capable of displaying resolutions up to 1080p (digital) and WUXGA (1920 x 1080 VGA), by down-scanning the larger resolutions to fit the 1024 x 600 panel.

MON7 is IP54 rated for dust and water protection. Special countermeasures have been taken to avoid the negative impact of the vibrations. Special attention is paid to the wide operating temperature range within the public transport vehicles – there have been chosen appropriate automotive grade components; the power supply blocks are based on highly efficient DC-DC converters, which reduces the dissipated heat energy.

All the features mentioned above make the MON7 an ideal choice for Mass Transit applications.

## 2. Application areas

Driver display in Video surveillance systems in Public Transport vehicles

Driver display in AFC systems in Public Transport vehicles

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### 3. Specifications

Display size	: 7 inch IPS LCD, 24 bit colors
Display resolution	: 1024 x 600 pixels
Display Brightness	: 600 cd/m2, white LED backlight
View Angle	: 170°(H) / 170°(V)
Contrast Ratio	: 800:1
Touch Screen	: Capacitive touch screen
Video interfaces	: HDMI 1.4 (with audio h/w) : VGA
Audio	: 2W speaker
Indicators	: 2 x RGB LEDs
NFC Interface	: ISO14443A/B compliant, up to 6 cm reading distance
Communication	: USB2.0A, 2 endpoints, one for the Touch Screen& one for the NFC reader
Data Security	: SAM Interface – 1 SAM slots
Printer	: 58mm paper width receipt thermal printer : 48mm printing width : max. 85mm/s printing speed : 384 dots/line printing density : 50km printing head lifespan : 65 +/- 5um paper thickness : 30mm diameter of paper roll : barcode and QR code printing capability
Digital Inputs	: 1 x ignition input : 1 x digital input with optical isolation
Digital Outputs	: 2 x Digital Outputs (Over-current protected)
Sensors	: Ambient Light Sensor : Temperature sensor, measures cabinet temp.
Power source	: Operating Voltage: 9 ~ 36VDC, Max 15 Watt
Dimensions	: 246 x 225 x 123
Operating t°	: -20 C° ... + 60 C°
IP grade	: IP54