

## eVision<sup>2</sup> 7.0 Touch

### Description

This compact 7.0" monitor with built-in, high-end Vision<sup>2</sup> display controller provides maximum performance under extreme environmental conditions and is therefore perfectly suited for use in off-highway vehicles. The unit may either be mounted in the vehicle dashboard or through a RAM ball elsewhere in the vehicle cockpit in landscape or portrait orientation. It offers full IP 65 protection. The display is characterized by low reflection and high colour saturation and provides optimal readability in any lighting conditions. Ten programmable control keys allow the creation of an easy-to-use human machine interface. Up to two cameras can be connected that give the operator an optimum view around the vehicle.

### Specifications

|                       |  |
|-----------------------|--|
| Display diagonal size | 7.0" (17.8cm) 16:9 aspect ratio          |
| Dimensions            | 235(W) x 135(H) x 53.4(D) mm             |
| Weight                | 1.2 kg                                   |
| Resolution            | 800 (W) x 480 (H) pixel                  |
| Active area           | 152,4 (H) x 91,44 (V) mm                 |
| LCD type              | TFT (thin film transistor) active matrix |
| Backlight             | LED                                      |
| Backlight lifetime    | 50.000 hours                             |
| Housing               | Robust housing with aluminium front      |

### Optical Characteristics

|                |  |
|----------------|--|
| Luminance      | 500 cd/m <sup>2</sup>                    |
| Viewing angle  | V = -60 / + 60 deg<br>H = -70 / + 70 deg |
| Contrast ratio | 600:1                                    |

### Maximum Ratings

|                       |                        |
|-----------------------|------------------------|
| Operating temperature | -20 to +60°C (ambient) |
| Storage temperature   | -30 to +80°C           |
| Supply voltage        | 9 to 32V               |

### Standards

|                    |                           |
|--------------------|---------------------------|
| CE                 | 2014/30/EU                |
| UKCA               | SI 2012 no. 2032          |
| E- Mark            | ECE-R10                   |
| EMC                | EN 13309                  |
| ESD                | ISO 10605                 |
| Electrical         | ISO 16750-2<br>ISO 7637-3 |
| Ingress Protection | ISO 20653 IP6k5           |
| Climatic           | ISO 16750-4               |
| Mechanical         | ISO 16750-3               |



### System Components

- Freescale i.MX51x application processor 32bit ARM Cortex A8 800MHz
- 1 GB Flash; 512 MB RAM
- RTC buffered by supercapacitor
- Membrane keyboard with 10 freely programmable buttons with backlight
- Auto-dimmable display backlight via ambient light sensor
- Internal temperature sensors for ambient and CPU temperature
- Panel or cabin mount, landscape or portrait orientation
- Resistive touch screen

### Interfaces

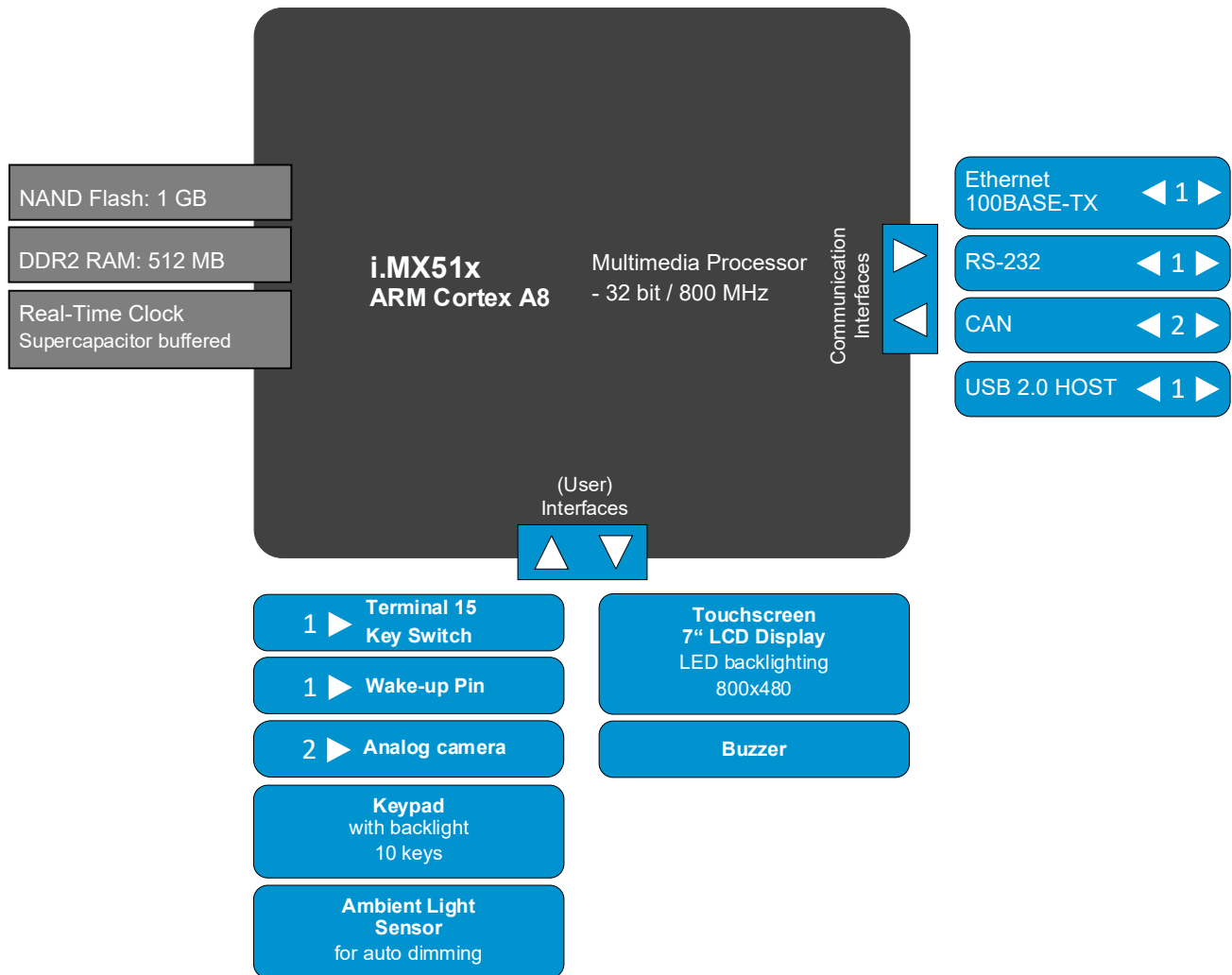
- 2 x video input for external composite video cameras
- 2 x CAN, 125 kbit/s up to 1 Mbit/s
- 1 x RS-232 and 1 x Ethernet 100 Mbit/s
- 1 x USB 2.0 (Host)
- Terminal 15 for ignition input
- Wake-up Pin

### Software

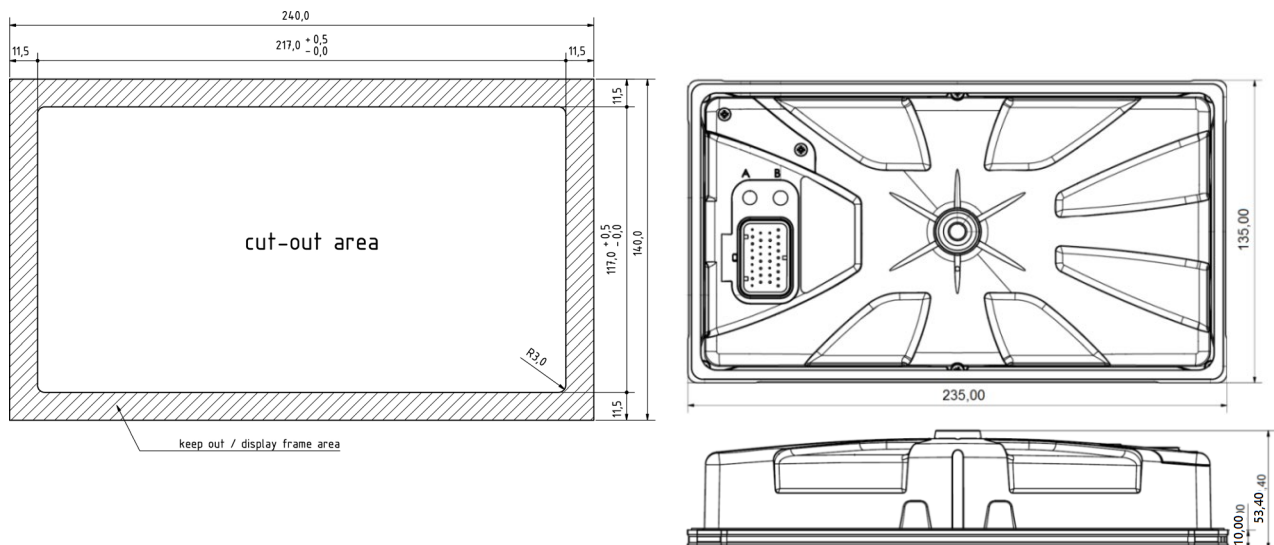
- Programmable in CODESYS® V3 with enhanced target visualization, including support for CANopen® master
- Display of .pdf-files and animations
- Picture-in-Picture functionality
- Sleep Mode - wake-up to full operation within less than half a second

Reverse polarity protection and protection of all external interfaces (except USB) against short circuit to GND and BAT+.

## Block Diagram



## Panel cut-out, housing back-side and side view with dimensions



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