



Mobile Display HY-eVision² 10.4

Description

The high resolution 10.4" TFT back-lit colour display with integrated high performance multimedia controller is notable for its very high image quality and optimum readability, even under the most adverse lighting conditions.

Seven programmable control keys and three navigation keys along with the optional touchscreen feature create an easy-to-use human-machine interface.

The display is protected by a robust aluminium die-cast housing and can either be built directly into the instrument panel or surface-mounted in the field of vision of the driver/operator in the cockpit using a "RAM Mount®" system.

Up to two external cameras can be connected to the display via the two integrated composite video ports and the pictures displayed simultaneously via software.

Special features

- 10.4" monitor with large angle of view, high contrast ratio and touchscreen function
- Display of PDF documents, images
- 3D capability, picture-in-picture function
- 4 CAN interfaces
- 2 composite video interfaces
- Up to 2 digital Ethernet cameras can be connected
- Both camera pictures can be displayed simultaneously
- USB 2.0 interface (OTG)
- Programming in CODESYS V3
- Waterproof and dustproof IP 65 die-cast aluminium housing
- 7 programmable function keys and 3 navigation keys
- Operation possible in 12 V and 24 V systems
- Real-time clock with GoldCap
- Anti-glare display surface
- Polarised display (optional)
- E12 type approval

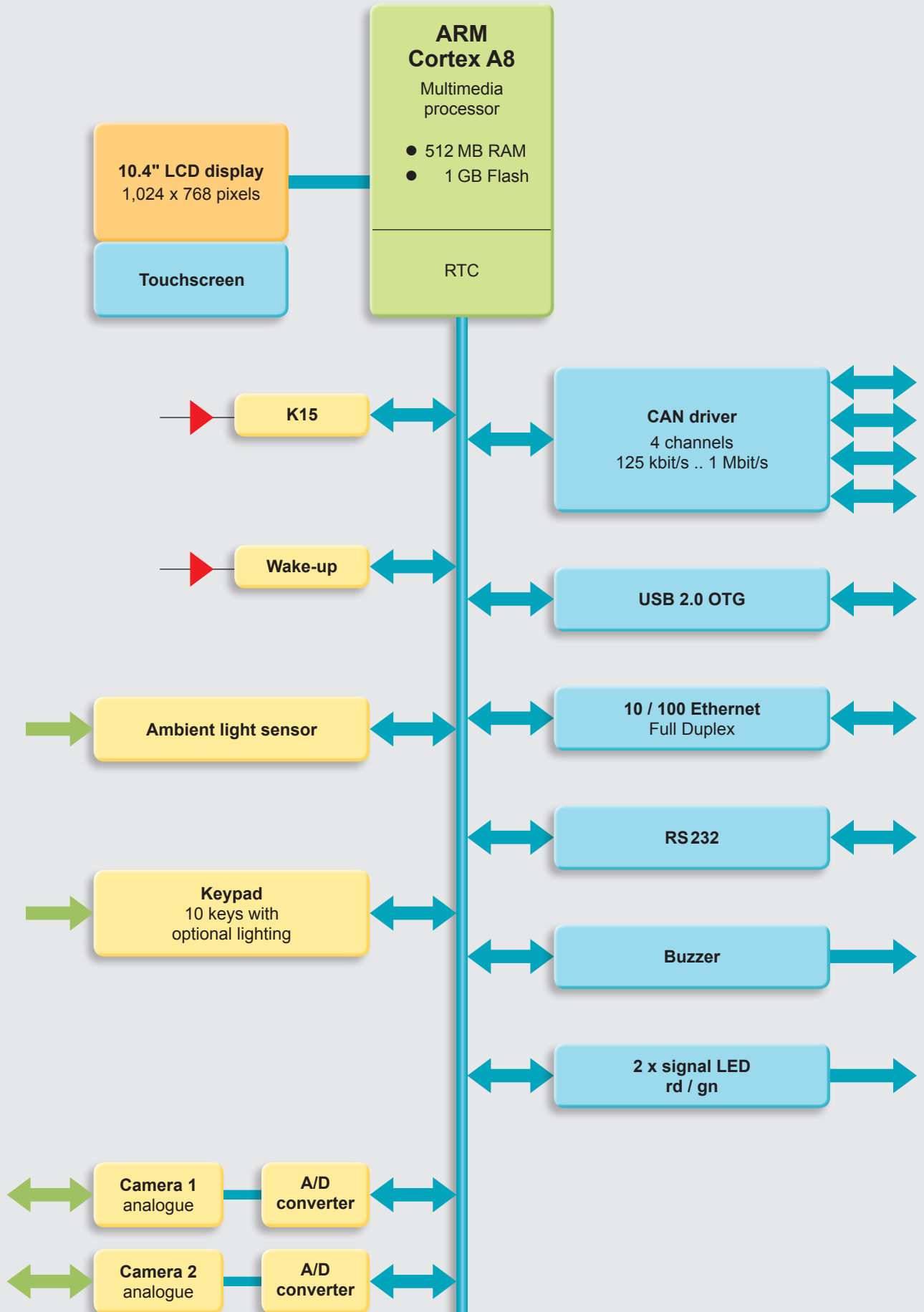
Technical data

Environmental conditions	
Operating temperature	-30 .. +60 °C
Storage temperature	-30 .. +80 °C
Supply voltage	9 .. 32 V DC
Current consumption	1.300 mA (12 V), 650 mA (24 V) without camera
Standby current	100 µA (12 V)
Fulfils the following standards	
CE mark	Compliant with 2004/108/EC
E-mark	ECE-R10 Rev.3
EMC	EN 13309
ESD	ISO 10605
Load dump	ISO 7637-2, 174 V, 2 Ohm, 350 ms
Electrical	ISO 16750-2
Protection class	EN 60529 IP 65 / ISO 20653 IP6K5
Temperature	ISO 16750-4
Vibration, shock, bump	ISO 16750-3
Dimensions and weight	
Housing dimensions	280 x 232 x 62 mm
Housing material	Aluminium
Weight	2.5 kg
Display	
Screen diagonal	10.4" (26 cm) / 4:3 format
Pixels	1,024 x 768
Active area	210.4 mm x 157.8 mm
Luminance	500 cd/m²
Viewing angle	Vertical: 88° / horizontal: 88°
Contrast ratio	1,200:1
Reaction time	10 ms
LCD type	TFT (active matrix)
Touchscreen	Resistive
Backlight	LED dimmable
Life expectancy of backlight	≥ 50,000 h at +25 °C (continuous)
Features	
LCD with backlight and high contrast	
32 bit ARM Cortex A8 800 MHz multimedia processor	
1 GB Flash, 512 MB RAM	
4 x standard Amphenol connectors (C1 .. C4)	
K15 for ignition input	
2 x composite video interface for external camera (FBAS, CVBS in PAL or NTSC-M)	
4 x CAN interface, 125 kbit/s .. 1 Mbit/s	
1 x RS232 interface	
1 x Ethernet interface for debugging, 100 Mbit/s	
1 x USB 2.0 OTG (Host or Device)	
Wake-up pin	
Real-time clock, buzzer	
Programming: CODESYS V3, support for CANopen Master	

Note: All external interfaces (except USB) are protected against short circuit to GND and BAT+.

Block circuit diagram

HY-eVision² 10.4



Model code

HY-eVision² 10.4 – CD – P – R – 00 XX 03 – G – 000

Firmware

CD = CODESYS run-time system
for CODESYS development environment
00 = none, only with Linux operating system

RAM memory

P = 512 MByte

Flash memory

R = 1 GByte

Functional safety

00 = standard (none)

Equipment options

00 = none
01 = polarised display

Operating options

03 = with touchscreen function and keypad lighting

Resolution

G = 1,024 x 768 pixels

Modification number

000 = standard

Note

On devices with a different modification number, please read the name plate or the technical amendment details supplied with the device.

Accessories

Appropriate accessories, such as cable harnesses, cabling and connection technology, service tools and software can be found in the Accessories section.

Note

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications and corrections.

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Dimensions

