



Mobile Display with Touch HY-eVision² 7.0

Description

The compact backlight 7" TFT colour display with resistive touch function and an integrated high-end eVision² display controller is notable for its excellent image quality, low reflection, high colour saturation as well as an optimal readability, even under the worst of lighting conditions.

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

Ten programmable illuminated control keys create an easy-to-use human-machine interface.

Up to two analogue cameras and two Ethernet cameras can be connected to give the user optimum visibility around the vehicle.

Special features

- 7.0" monitor with large angle of view, high contrast ratio
- Programming in CODESYS V3
- Display/creation of PDF files and animations, 3D capability
- 2 analogue camera interfaces with picture-in-picture feature
- Up to 2 digital Ethernet cameras can be connected
- 2 CAN, USB 2.0 Host, RS232, Ethernet
- Option 3G modem with GPS module
- Real-time clock
- Sleep mode with shutdown
- Wake-up pin and wake-up timer
- Operation possible in 12 V and 24 V systems
- Waterproof and dustproof IP 6K5 housing
- E12 type approval

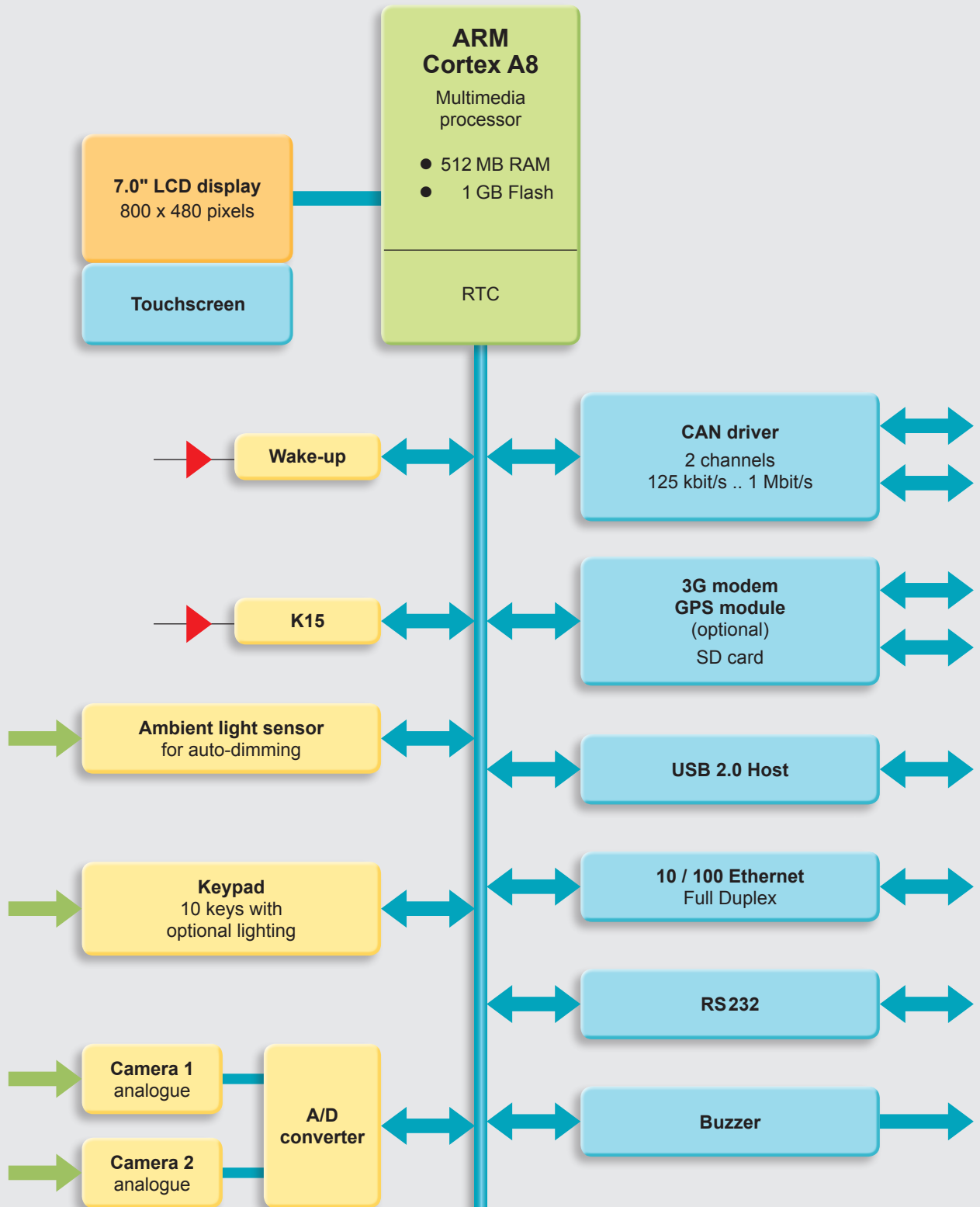
Technical data

Environmental conditions	
Operating temperature	-20 .. +60 °C (environment)
Storage temperature	-30 .. +80 °C
Supply voltage	9 .. 32 V DC
Fulfils the following standards	
CE mark	Compliant with 2014/30/EU
E-mark	ECE-R10 Rev.3
EMC	EN 13309
ESD	ISO 10605
Electrical	ISO 16750-2, ISO 7637-3
Protection class	ISO 20653 IP6K5
Temperature	ISO 16750-4
Vibration, shock, bump	ISO 16750-3
Dimensions and weight	
Housing dimensions	235 x 135 x 53.4 mm
Housing material	Robust alum. housing front and plastic back
Weight	1.2 kg
Display	
Screen diagonal	7.0" (17.8 cm) / 16:9 format
Pixels	800 x 480
Active area	152.4 mm x 91.44 mm
Pixel size	0.1905 mm x 0.1905 mm
Luminance	500 cd/m ²
Viewing angle	Vertical: ±60° / horizontal: ±70°
Contrast ratio	600:1
Reaction time	5 ms
LCD type	TFT (active matrix)
Backlight	LED
Life expectancy of backlight	≥ 50,000 h at +25 °C (constant)
Features	
LCD with backlight and high contrast	
Auto-dimming via ambient light sensor	
32 bit ARM Cortex A8 microcontroller, 800 MHz, 1 GB Flash, 512 MB RAM	
34-pole Tyco central male connector	
K15 for ignition input	
2 x composite video interface for external camera	
2 x CAN interface, 125 kbit/s .. 1 Mbit/s	
1 x RS232 and 1 x Ethernet interface 100 Mbit/s	
1 x USB 2.0 Host	
Resistive touch	
Option 3G modem with GPS module (operation and availability only: within EU (EEA))	
Real-time clock (RTC, buffered with GoldCap)	
Buzzer	
Sleep mode (wake-up < 0.5 s) with shutdown function	
Wake-up pin, wake-up Timer	
Programmable in CODESYS V3 with improved target visualisation including support for CANopen [®] Master	

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

Block circuit diagram

HY-eVision² 7.0 – Touch



Model code

HY-eVision² 7.0 – CD – P – R – 00 XX 01 – E – 000

Firmware

CD = CODESYS run-time system
for CODESYS development environment

RAM memory

P = 512 MByte

Flash memory

R = 1 GByte

Functional safety

00 = standard (none)

Equipment options

00 = none
07 = 3G modem with GPS function

Operating options

01 = with touchscreen function

Resolution

E = 800 x 480 pixels

Modification number

000 = standard

Note

Devices with the options 3G/GPS (07) are only marketed within the EU and must only be operated within the EU.

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

