

Vision 305s

Description

Vision 305s is a robust 5.0" touchscreen display with a built-in controller. Besides several communication interfaces, the display is equipped with an ambient light sensor, a multi-color LED and an integrated loudspeaker. The Vision 305s display is optically bonded for perfect sunlight readability. The housing is sealed and the device can withstand extreme temperatures as well as shocks and vibrations.



Specifications

Display diagonal size	5.0", 15:9 aspect ratio
Dimensions	163 x 99.7 x 40.8 mm
Weight	560 g
Resolution	800 (W) x 480 (H) pixels
LCD type	TFT color graphic; optically bonded; capacitive touch
Backlight	LED

Optical Characteristics

Luminance	800 cd /m ² typ.
Viewing angle	V = +/- 70 deg. H = +/- 70 deg.
Contrast ratio	700:1

Maximum Ratings

Operating temperature	-30 to +75 °C (ambient)
Storage temperature	-40 to +85 °C
Supply voltage	8 to 36 V

Standards

CE-Mark	2014/30/EU
E-Mark	ECE 10R
EMC	ISO 14982 EN 13309 EN 50498 ISO 61000-6-2 ISO 61000-6-4
Ingress protection	ISO 20653 IP6k5

System components

- Freescale i.MX6S application processor, 32-bit ARM, 800 MHz
- 2 GB Flash, 512 MB RAM
- RTC buffered by supercapacitor
- Display backlight auto-dimmable via ambient light sensor
- Stand-alone or in-dash mount, landscape or portrait orientation
- Projective capacitive touchscreen
- Optically bonded

Interfaces

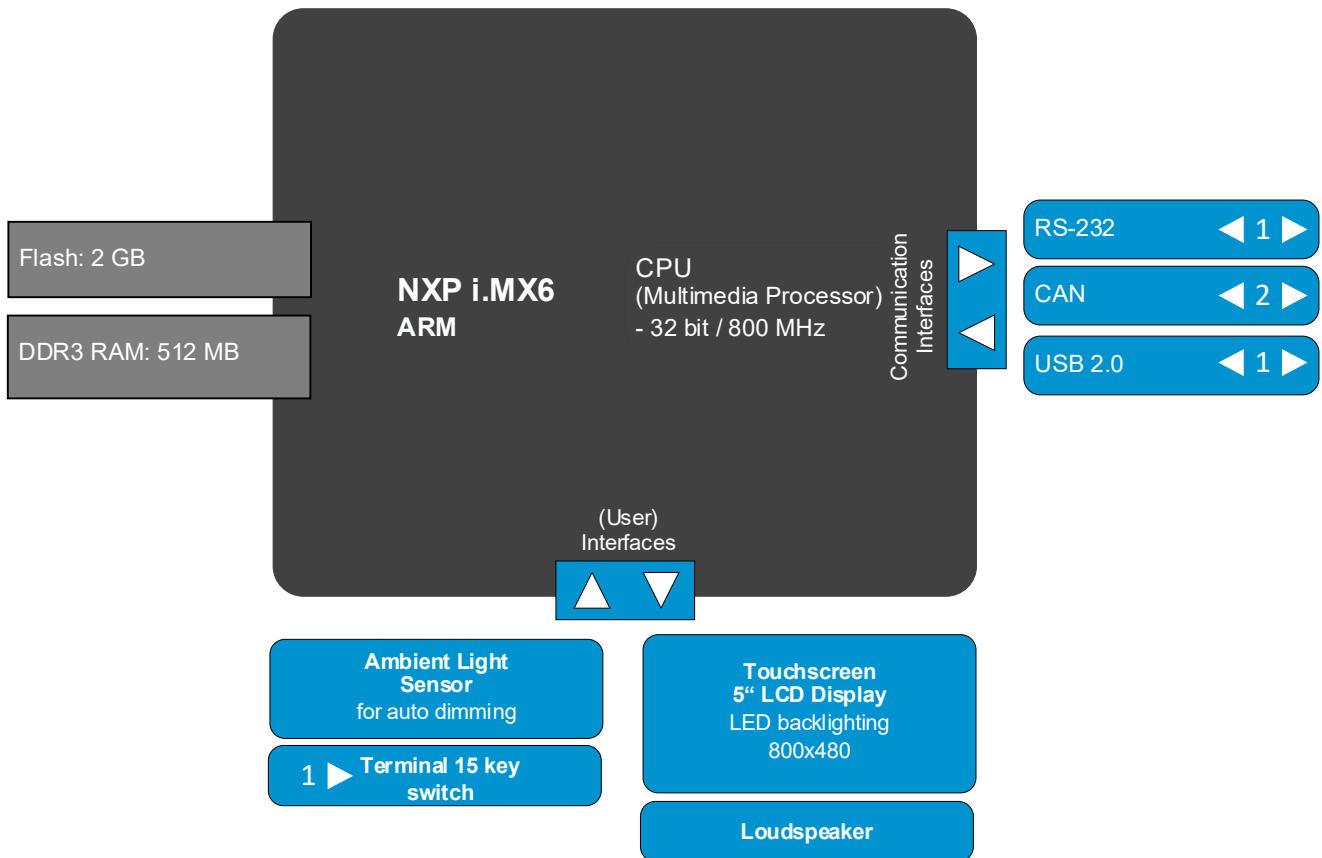
- 2 x CAN, 10 kbit/s up to 1 Mbit/s
- 1 x USB 2.0 (Type A)
- RGB Status LED
- 1 x RS-232
- Terminal 15 key switch (ignition)
- 1 x integrated loudspeaker

Software

- Programmable with CODESYS® V3 with enhanced target visualization, including support for CANopen® master or C/C++

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

Block Diagram



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