



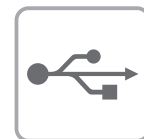
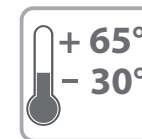
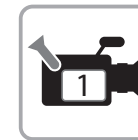
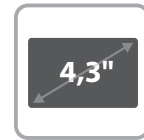
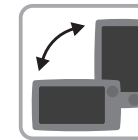
## OPUS A3s - Good Things come in Small Packages

The OPUS A3s offers you all the possibilities of the OPUS A3eco, but with even more useful features. The A3s version allows the user to implement a variety of different user interfaces with ease.

The unit also includes an encoder, eight softkeys and three hard keys with exceptional tactile touch underlining the quality of the A3s.

The 4.3" screen features operation verification, and can also be supplied as an analog resistive touchscreen.

The multi-color LED is supplemented by three additional LEDs. The full-speed USB 2.0 input on the front is best suited to high-speed data exchange and is positioned in the casing of the unit for maximum protection against the elements. CANbus ports for fast operation, an acoustic alarm with up to 65 dBA output and a camera input to ensure the highest level of safety. A powerful 32-bit, 532 MHz processor offers outstanding performance. This is supported by either 512 MB or 1 GB of RAM, plus 32 KB of serial EEPROM.



**Housing**

Orientation landscape or portrait  
W189 x H98 x D60 mm  
excl. connector and cables

**Display**

4.3", 15:9 TFT transmissive  
480 x 272 px, 400 cd/m<sup>2</sup>  
Contrast ratio 400:1

**Signals**

Multi-color LED  
3 status - LED`s  
Piezo alarm, approx. 60 dB(A)

**Processor**

32-bit, 532 MHz  
Freescale® I.MX35™

**Memory**

256 MB DDR2 RAM  
1 GB NAND flash

**User Interface**

8 softkeys  
3 hardkeys  
Encoder  
Analog-resistive touchscreen

**Interfaces**

2 x CANbus ISO 11898  
CAN specification 2.0 B active  
Ethernet 10/100 Mbit/s Base-T  
1 RS-232 (Rx/D, Tx/D, GND only)  
Analog/Digital I/O:  
4 analog/digital inputs,  
3 digital outputs  
1 USB 2.0 full speed  
Ethernet 10/100 Mbit/s Base-T  
Light sensor

**Video**

1 composite CCITT video input  
PAL 50 Hz color coding / NTSC  
1 Vpp, 75 Ohm

**Wireless**

na

**Power Supply**

9 ... 36 V DC

**Operating System**

Embedded Linux®

**Real Time Clock**

Buffered by goldcap

**Environmental Conditions**

Temperatures  
operating - 30° to +65°C  
storage -40° to +85°C  
Protection IP 65 and IP 67  
Vibration 5g, Shock 30g

**Programming Environment**

Wachendorff Projektor-Tool  
for Windows®  
CODESYS V3  
ISO - VT

**Supported Protocols**

CANopen®  
CANfreestyle  
J1939

**Advanced Programming Environment**

C/C++

**Certificates**

CE mark

**Connectors**

Main: AMP Seal, 26 pin  
Video: M12 round, 5 pole, b-coded  
Ethernet: M12 round, 4 pole, d-coded

