

## OPUS A3s - The new standard

### Datasheet OPUS A3s



When the device should be as good and inexpensive as the A3 Eco, but certain extra features should not be missing, then the OPUS A3s is the right choice: With encoder, three hard and eight soft function keys.

## Technical Data

### HOUSING

Standalone or dashboard mount,  
orientation landscape or optional portrait  
Approx W 198 x H 95 x D 55 mm,  
incl encoder, excl. connector and cables  
Weight < 1 kg

### DISPLAY

4.3", 16:9  
TFT, transmissive  
480 x 272 pixels  
400 cd/m<sup>2</sup> max brightness  
400:1 max contrast  
H ±60°, V ±55° max viewing angles

### USER INTERFACE

### INTERFACES

2 CANbus ISO 11898,  
CAN specification 2.0 B active  
1 RS-232 (RxD, TxD, GND only), EIA-level  
Optional 4 analog or digital inputs  
(selectable via software), 3 digital outputs  
1 USB 2.0 full speed on main connector,  
optional 1 USB 2.0 high speed on front  
Optional Ethernet 10/100 Mbit

### WIRELESS

Optional Bluetooth® 2.0, Class 2

### VIDEO

Optional 1 Composite CCITT video input,  
PAL 50 Hz color coding, input level

### POWER SUPPLY

Max tolerable 8 – 36V DC

### ENVIRONMENTAL CONDITIONS

Temperatures  
Operating -30° to +75°C  
Storage -40° to +80°C  
Protection IP 67 and IP 65.  
True outdoor.  
Vibration 5g @ 57 – 2000 Hz, 150 h per axis  
Shock 30g, 11ms, 10 times per axis

### CERTIFICATES

e1 and CE mark

### OPERATING SYSTEM

Optional analog-resistive touchscreen  
8 Softkeys, 3 Hardkeys  
Key backlighting - blue, adjustable  
1 encoder with push click to enter

#### **SIGNALS**

1 multicolor LED and 3 status LEDs  
Piezo alarm approx 65 dBA

#### **PROCESSOR**

32-bit, 400 MHz / 533 MHz, I.MX25 / I.MX35

#### **MEMORY**

64 / 128 MB DDR2  
512 / 1GB MB Mass Storage  
32 kB serial EEPROM

1 Vpp, 75  $\Omega$   
Video overlay with video layer for background

#### **REAL TIME CLOCK**

Buffered for 2 weeks by gold cap

#### **CONNECTORS**

Main: AMP Seal, 26 pin  
Analog/Digital I/O: On main connector  
USB: On main connector.  
Optional USB A on front.  
Ethernet: 4-pole round connector,  
M12, D-coded  
Video: 5-pole round connector,  
M12, B-coded

Embedded Linux®

#### **PROGRAMMING**

Wachendorff Projektor-Tool  
for Windows® NT/2000/XP  
supporting  
CANopen®  
Generic driver  
CANfreestyle  
J1939

#### **ADVANCED PROGRAMMING**

Optional CoDeSys v3  
Optional Programming in C/C++

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