

32-Bit, zwei CANbus Ports, USB, IP67, erhältlich als Ein- oder Anbaugerät für Quer- oder Hochformat, optional Touchscreen und das alles für kleines Geld.

32-Bit, two CANbus ports, USB, IP67, available as built-in equipment or attachment for portrait or landscape format and optional touch screen, and that all for just a little money.

32 bits, deux ports CANbus, USB, IP67, disponible comme modèle à encastrer ou en saillie pour format vertical ou horizontal, avec écran tactile en option. Le tout pour un prix dérisoire.

32 bits, dos puertos CANbus, USB, IP67, disponible como dispositivo empotrable o expandible para formato apaisado o retrato, touchscreen opcional y todo esto por muy poco dinero.

32 bits, duas portas CANbus, USB, IP67, disponível como dispositivo integrado ou de montagem para formato paisagem ou retrato, tela sensível ao toque opcional e tudo isso por um preço reduzido.

32-битный, два порта CANbus, USB, IP67, предлагается как встраиваемое или навесное устройство горизонтального или вертикального формата, дополнительный сенсорный экран, и всё это – за небольшие деньги.

32位，两个CANbus接口，USB，IP67，可选择横向或纵向的安装及辅助设备，可选触摸屏，所有这些只需很小花销。



 **OPUS<sup>®</sup> A3e**

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## HOUSING

Standalone or dashboard mount,  
orientation landscape or portrait

Approx W 130 x H 95 x D 55 mm,  
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

Optional analog-resistive touchscreen

## SIGNALS

1 multicolor LED

Piezo alarm approx 65 dBA

## PROCESSOR

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

## MEMORY

64 / 128 MB DDR2

512 MB / 1 GB Mass Storage

32 kB serial EEPROM

## 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 Ethernet 10/100 Mbit

## VIDEO

Optional 1 Composite CCITT video input,  
PAL 50 Hz color coding, input level  
1 Vpp, 75 Ω

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

Ethernet: 4-pole round connector,  
M12, D-coded

Video: 5-pole round connector,  
M12, B-coded

## 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

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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