

Perfekte Funktionalität: 32-bit, 400 MHz für schnelle Rechenleistung, 15 Tasten, 1 GB Massenspeicher, 2 CANbus, SD-Karte und USB, 65.536 Farben sowie skalierbares Videobild. Einfach ein Gewinnertyp!

The new OPUS A5 offers perfect functions. 400 MHz for fast operating, 15 keys, 1 GB mass storage, 2 CANbus, SD slot, USB, 65,536 colors and scaleable videodisplay. Simply a matchwinner!

Parfaite fonctionnalité : 32 bits, 400MHz pour une performance informatique, 15 touches, mémoire de masse 1 Go, 2 CANbus, carte SD, USB, 65.536 couleurs et overlay vidéo. Une mentalité de gagnant !

La nueva OPUS A5 ofrece funciones perfectas. 400 MHz para un funcionamiento rápido, 15 teclas, 1 GB de almacenamiento masivo, 2 CANbus, entradas SD, USB, 65.536 colores y pantalla de video escalable. ¡Sencillamente una ganadora!

Funcionalidade perfeita: 32 bits, 400 MHz para um desempenho veloz em cálculos, 15 teclas, 1 GB de memória para armazenamento em massa, duas CANbus, cartão SD e USB, 65.536 cores e imagem de vídeo escalonável. Simplesmente um campeão!

Отличная функциональность: процессор с тактовой частотой 400 МГц, заметно ускоряющий работу, встроенная память 1 Гб, интерфейс для подключения к двум шинам CAN, слот для SD-карты, разъем USB, масштабируемый дисплей с поддержкой 65.536 цветов. Просто настоящий лидер!

凭借其32位400兆赫处理器，OPUS A5成为我们最出色的设备。800 × 480像素和65536色、具有视频叠加功能的7" TFT液晶显示屏，可以实现您的每个愿望。SD插槽、USB接口、串口和CANbus接口使得OPUS A5具有强大的通讯功能。通过15个可自由编程的按键，以及通过我们的直观软件“投影机 - 工具”，甚至通过更加个性化的C功能，赋予了OPUS A5最大的灵活性。这是一款集完美功能与时尚设计为一体的产品。




[www.wachendorff-elektronik.de](http://www.wachendorff-elektronik.de)

Wachendorff Elektronik GmbH & Co. KG, Industriestrasse 7, 65366 Geisenheim, GERMANY  
Tel +49 6722 9965-26, Fax +49 6722 9965-85, opus@wachendorff.de

[www.wachendorffUSA.com](http://www.wachendorffUSA.com)

Wachendorff Electronics USA, Inc., 2585 Millennium Drive, Suite i, Elgin, IL 60124, USA  
Tel +1 847-695-8820, Fax +1 847-890-6776, opusamerica@wachendorff.com

## HOUSING

Standalone mount,  
orientation landscape  
W 271 x H 140 x D 68 mm,  
incl encoder, excl connector and cables  
Weight 1.1 kg

## DISPLAY

7", 15:9, TFT, transfective  
800 x 480 pixels  
220 cd/m<sup>2</sup> max brightness  
400:1 max contrast  
H ±70°, V ±55° max viewing angles

## USER INTERFACE

12 Softkeys, 3 Hardkeys  
Key backlighting - amber, adjustable  
1 encoder with push click to enter

## SIGNALS

1 multicolor LED  
Piezo alarm approx 80 dBA

## PROCESSOR

32-bit, 400 MHz, MPC5200B

## MEMORY

256 MB SDRAM  
1 GB Mass Storage  
32 kB serial EEPROM  
1 slot for SD card

## INTERFACES

2 CANbus ISO 11898,  
CAN specification 2.0 B active  
1 RS-232 (RxD, TxD, GND only), EIA-level  
Analog/Digital I/O  
2 analog inputs, 1 digital input,  
2 digital outputs  
1 USB 2.0 full speed on side  
Ethernet for Software development only

## WIRELESS

Optional Bluetooth® 2.0, Class 2

## VIDEO

1 Composite CCITT video input,  
PAL 50 Hz color coding, input level  
1 Vpp, 75 Ω  
Video overlay with video layer for background

## AUDIO

1 Stereo-audio-out, AC97  
compatible, output appr. 50 mW

## REAL TIME CLOCK

Buffered for 2 weeks by gold cap,  
accuracy ±1 sec/day

## CONNECTORS

Main: AMP Super Seal, 26 pin  
Analog/Digital I/O: On main connector  
USB: USB A on side  
Video: Escha M12 x 1, round connector,  
Code EC-FSFD4.5  
Audio: On main connector

## POWER SUPPLY

Max tolerable 8 – 48V DC

## ENVIRONMENTAL CONDITIONS

Temperatures  
Operating –30° to +65°C  
Storage –35° to +80°C  
Protection IP 65 with SD slot  
and USB port closed. Not for outdoor use.  
Vibration 5g @ 10 – 2000 Hz, 150 h per axis  
Shock 30g, 11ms, 3 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++

Copyright© 2009, Wachendorff Elektronik GmbH & Co. KG  
and Wachendorff Electronics USA, Inc. All rights reserved.  
All details are without guarantee. Errors and omissions excepted.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.  
of Bluetooth SIG, Inc. in the United States and other countries.  
CANopen® is a registered community trade mark of CAN in Automation e.V.  
Linux® is a registered trademark of Linus Torvalds  
in the United States and other countries.  
Windows® is a registered trademark of Microsoft Corporation  
in the United States and other countries.

 **OPUS® A5**



