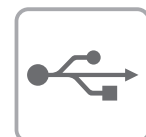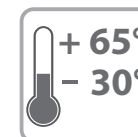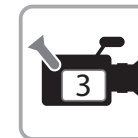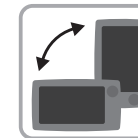# OPUS A6s - For Perfectionists

The difference is in the sum of all the details. Where the features of the OPUS A6e are still not enough, there is always its 'big brother': the OPUS A6s. This model can offer many additional and practically relevant features where the technical demands are greater. It offers a bright 7" display coupled with up to three video inputs. 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. Available as a standalone or dashboard solution, the unit offers twelve softkeys and three hard keys, plus four digital or analog inputs. A multi-color LED and a

standard LED provide immediate visual indication to the operator of any faults detected.

Two CANbus Ports

The high-performance, 32-bit, 532 MHz processor and the memory capacity of either 512 MB or 1 GB of RAM plus 128 or 256 MB of DDR2 make the OPUS A6s a powerful heavyweight. Fitted with two CANbus ports, it leaves no wish unfulfilled. A front-mounted, high-speed USB port and 3 camera inputs can also be included as optional extras. Problem-free functionality is assured by the trusted Embedded Linux operating system.

7.0"

3

I/O

ISOBUS inside

IP 65
IP 67

5 g

+ 65°
− 30°

Housing
Orientation landscape or portrait
W223 x H139 x D64 mm
excl. connector and cables

Display
7", 15:9 TFT transmissive
800 x 480 px, 400 cd/m²
Contrast ratio 500:1

Signals
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
Analog-resistive touchscreen

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

Video
3 composite CCITT video inputs
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
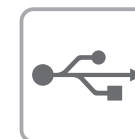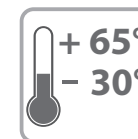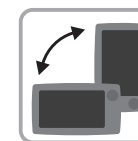Ethernet: M12 round, 4 pole, d-coded

OPUS A6e - Technology for Convenience

The OPUS A6e is the first choice for complex HMI (Human Interface) which rely on the processing of a wide range of information. This unit features a bright, high-resolution display with a great picture - and therefore offers complete ease of use under all operating conditions. With an optimised size of 7" and a 800 x 480 pixel resolution, everything the operator needs is perfectly readable. The large 512 MB or optional 1 GB of memory, combined with the 32-bit, 532 MHz processor, is ideally suited to demanding applications.

The device can be orientated either horizontally or vertically and we can supply it in either standalone or dashboard options.

Integrated Camera Input

A built-in camera input allows you to easily connect an OPUS camera. Further features of the OPUS A6e are two CANbus ports and four configurable inputs either analog or digital. The OPUS A6e can also be fitted with an analog resistive touch-screen and two additional camera inputs as optional extras.

7.0"

I/O

ISOBUS inside

IP 65
IP 67

5 g

+ 65°
− 30°

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/m²
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 specifcation 2.0 B active
Ethernet 10/100 Mbit/s Base-T
1 RS-232 (RxD, TxD, 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
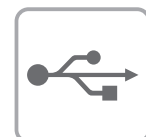Ethernet: M12 round, 4 pole, d-coded
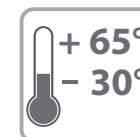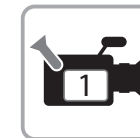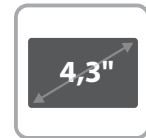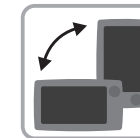
OPUS A3s - Portrait

The OPUS A3s series offers highly practical end devices for everyday use.
The basic device can be orientated either horizontally or vertically and we can supply it in either standalone or dashboard options.

The standard full line range offers an extra, intelligent feature that lets you individualise the user interface. Technical details - systematically thought through by Wachendorff. This product line offers a larger number of connection options in combination with more powerful technology.

Overview of product highlights:

- Can be used as a parameterisation unit
- Large display
- On-screen operation verification
- Low weight

4,3"

1

I/O

ISOBUS inside

IP 65
IP 67

5 g

+ 65°
– 30°

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/m²
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 specifcation 2.0 B active
Ethernet 10/100 Mbit/s Base-T
1 RS-232 (RxD, TxD, 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
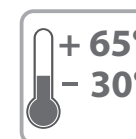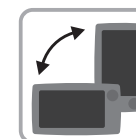Ethernet: M12 round, 4 pole, d-coded

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.

4,3"

IP 65
IP 67

5 g

+ 65°
− 30°

Housing
Orientation landscape or portrait
W142 x H98 x D43 mm
excl. connector and cables

Display
4.3", 15:9 TFT transmissive
480 x 272 px, 400 cd/m²
Contrast ratio 400:1

Signals
Multi-color LED
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
Analog-resistive touchscreen

Interfaces
2 x CANbus ISO 11898
CAN specifcation 2.0 B active
Ethernet 10/100 Mbit/s Base-T
1 RS-232 (RxD, TxD, 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 battery

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

OPUS A3e - All Basic Needs Covered

A lot of technology - at a low investment cost. This slogan fittingly describes the OPUS A3e. This full-value operator console features a 4.3" screen with 480 x 272 pixels and is optionally available with a touchscreen display. A further plus point of the OPUSA3e is its weight: less than 1kg.

Inside is a powerful and reliable 32-bit, 532 MHz processor, with memory option ranging from a minimum of 512 MB, up to 1 GB. Equipped with a multi-color LED, 4 analog or digital inputs,
2 CANbus ports and a full-speed USB 2.0 interface, this low-cost unit is not lacking

in functionality. The OPUS A3e: high performance at an entry-level price.

Acoustic Alarm

To assure reliable monitoring, the full line version of the OPUS A3e features an acoustic alarm with an output of up to 65 dBA. This makes it particularly suitable as a parameterisation unit, and it uses the trusted Embedded Linux operating system.
You can count on it: the OPUS A3e offers the best price-to-performance ratio available on the market in its class.

4,3"

IP 65
IP 67

5 g

+ 65°
− 30°