

Technology for
Man & Machine

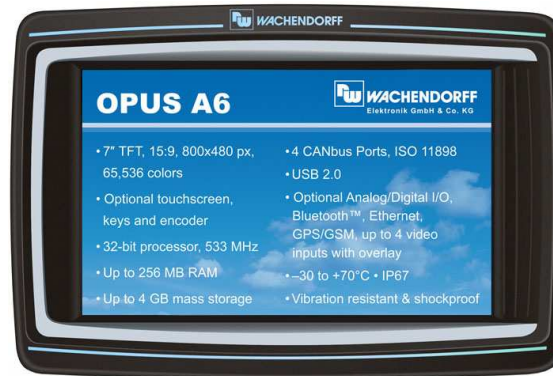


Welcome to
Wachendorff **Electronics USA**

The OPUS A6



OPUS A6 Housing Options



OPUS A6

- 7" TFT, 15:9, 800x480 px, 65,536 colors
- Optional touchscreen, keys and encoder
- 32-bit processor, 533 MHz
- Up to 256 MB RAM
- Up to 4 GB mass storage
- 4 CANbus Ports, ISO 11898
- USB 2.0
- Optional Analog/Digital I/O, Bluetooth™, Ethernet, GPS/GSM, up to 4 video inputs with overlay
- -30 to +70°C • IP67
- Vibration resistant & shockproof



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Two Sizes suitable for many applications

- Version Eco, no keys
- Version Standard, 8 soft- and 3 hardkeys encoder with push function



OPUS A6 Mounting Orientations



Landscape or Portrait Orientation

- Simple handling
- Ergonomically designed



OPUS A3 Mounting Possibilities



Stand alone or Panel mount

- Adaptable to cabin design
- Flexible positioning



OPUS A6 Customized Keypads and Rubber Frame



Several options

- Number position, key-colors and LED-indicators
- Printing, Illumination and Logos



OPUS A6 - customizing

Keys or LED Arrays

embedded indicators or customized key prints





OPUS A6 Display



7" 15:9 Transflective color display

- 800 x 480 pixels
- LED backlight, 400 cd/m², 500:1 contrast ratio



OPUS A3 Functions

True Outdoor

- IP 67 Protection
- Temp Range
-40C° ...+75C°
- 5g vibration
- 30g shock
- tough EMC protection





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Video

- one video interface in Basic Version
- three Video interfaces in full option
- Video overlay





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Interfaces

- USB 2.0 Interface on the front side and on main connector
- Ethernet Interface on back via M12 round connector (option)



OPUS A6 Performance

Processor

- 32 bit
- Freescale
- 532 MHZ
- ARM 11 Core





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Memory (basic / full option)

- 0,5 GB / 1 GB mass memory
- 64 MB / 128 MB SDRAM
- 32 kByte EEprom



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Touch Screen

- standard in full versions



OPUS A6 Interfaces

I/O (option)

- 4 Analog / Digital Inputs
- 3 Digital Outputs





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- 3 Digital Outputs

CAN Functionality

- 2 CAN Interfaces
- CANopen
- J1939
- CANfreestyle
- Generic Driver





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Bluetooth (option)

- Class 2
- v 2.0 EDR



OPUS A6 Software



Operating System

- Embedded Linux
- Kernel 2.6.28



OPUS A6 Software



Projector Tool

- Free Layout editor
- What you see is what you get

Operating System

- Embedded Linux
- Kernel 2.6.28



OPUS A6 Software



Projector Tool

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- What you see is what you get

CoDeSys environment

- Run time environment CoDeSys 3.X

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C-Programming

- program your own application software



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Software updates



- do Updates by USB-Stick

C-Programming

- program your own application software





Feature Matrix A6

Housing				
	Basic	Full Option	Basic	Full Option
Panel mount	◆	◆	◆	◆
Stand alone	◆	◆	◆	◆
Wachendorff Logo	◆	◆	◆	◆
Multi-LED	-	-	◆	◆
Encoder	-	-	◆	◆
USB front	-	-	-	◆
Beeper	-	◆	-	◆
Light sensor	-	◆	-	◆
RTC	◆	◆	◆	◆
Bluetooth	-	◆	-	◆
Touch-Screen	-	◆	-	◆
Keys	-	-	◆	◆
Ethernet	◆	◆	◆	◆



Feature Matrix A6

Housing					
Processor		533 MHz, Freescale I.MX35, ARM11 Core			
Memory	M-DDR-RAM	128 Mbyte	256MByte	128 Mbyte	256MByte
	Mass-memory	1 GB MB NAND-Flash	4 GB NAND-Flash	1 GB NAND-Flash	4 GB NAND-Flash
	EEPROM	32kBit			
Display		800 x 480 px			
Protocol		CANopen, CANfreestyle, J1939, Generic Driver, ISOBus			
Analog/digital inputs		-	4	-	4
Digital outputs		-	3	-	3
Video inputs		1	3	-	3
Connector (Pins)		AMP SEAL (26)			
Operating system		Embedded Linux			
Project programming		Projektor, CoDeSys 3.x, C Libraries			

