

HMI-OCTO

The best operating device you can buy

IBL·HYDRONIC

... the solution provider



5" and 7" · PCAP multitouch · customized

The device concept is based on state-of-the-art standard electronics and combines additive manufacturing technology with individual housing design. This results in unique control devices with a distinctive appearance. Additive manufacturing enables cost-effective production of customized housings, even in small quantities. The modular design allows for adaptation to individual requirements and expansion possibilities. The result is highly personalized devices with strong brand recognition. Companies can strengthen their brand identity and offer customers tailored products while benefiting from the advantages of standardized electronics and efficient manufacturing.

APPLICATIONS

Robust graphical control devices for construction, agricultural, and forestry machinery, municipal equipment, and special vehicles. The devices are used as:

- iblos-T-grip control device
- iblos-HHI-OCTO-curved control device
- Dashboard applications in vehicles
- Customized iblos-HHI-OCTO control device
- Integrated component in iblos joystick consoles and armrests.



Short boot-up time

- 0.6s - no more than 1.6s

Professional graphics features

- embedded GUI technology from the automotive industry
- fast, easy on resources
- 3D elements included

Equipment

- high-res 5" and 7" screen
- 16.7M colors
- readable under all lighting conditions and from a slanted angle
- modern capacitive multi-touch (PCAP)
- smooth integration of operating elements like potentiometer, button, membrane keyboard, stop switch, et al.

Interfaces

- 2 CAN networks
- USB-OTG for external devices or USB stick
- optional add-on's for CAN, I/O, camera, ethernet, IoT (iblos-CLOUD-Master)

Programming

- freely programmable in C
- freely programmable in CoDeSys3.5
- graphics GUI embedded Wizard

Housing

- additive in-house production
- automotive interior quality
- label with your company logo
- RAM-mount, panel mounting version or specific installation
- protection class depending on requirements
- coloring



IBL-HYDRONIC GmbH und Co. KG phone: +49 (0) 37606 37 8280
Alte Baumechanik 2 mail: verkauf@iblos.com
D - 08485 Lengenfeld web: www.iblos.com

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OPTIONS

- Operating elements** buttons, potentiometer, joysticks, membrane keyboard, stop switch, LEDs
- Housing** additive production, form and color application-specific or basic version in black
- Hardware add-on** additional I/O, CAN, camera inputs, ethernet, IoT features, memory expansion

LEISTUNG

- CPU** ARM Cortex M7 200MHz, 32bit
- Internal memory** 32MByte SDRAM, 17MByte Flash (expandable), 4kB EEPROM, 256kB SRAM
- External memory** USB-Stick
- Grafic** graphics accelerator
- Display** 5" oder 7" colorTFT, 800x480 RGB WVGA 60Hz, 500-850cd/m², 24bit Farbtiefe (16,7 million colors), wide angle of vision
- Touch** modern multitouch (PCAP), drop detection, glove operation as required
- Watchdog** external hardware-watchdog
- Real time clock** buffered battery (Tadiran), calender
- Software** Keil RTX5 real-time OS
Embedded Wizard GUI, WYSIWYG

IN-/OUTPUTS

- Distance pulse** norm signal accordance with ISO11786 for driving speed
12/24V electrical system
- Enable signal** Vdd for enabling IMPact modules with cutoff relays, output for external control devices
- Analog input** 6 x analog input 0...5V
- Voltage input** measurement of Vdd (0...32V)
- Output** internal for acoustic beeper

TECHNICAL PROPERTIES

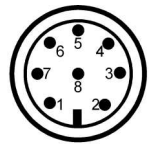
- Electrical connection**
power supply 12/24 VDC (9 to 32 VDC)
resettable fuse
load dump protection, suitable for vehicular electrical systems,
voltage internally monitored

Housing

additively produced Pa12, ip50 to ip65, installation housing with 1" RAM-mounts, panel mounting, customized design

Connection

- M12 8-pin connector
- 1: vdd
 - 2: enable
 - 3: 0V
 - 4: CAN1 low
 - 5: CAN1 high
 - 6: CAN2 low
 - 7: CAN2 high
 - 8: distance pulse 12/24 VDC



USB

USB-OTG, Micro-B-USB

Programming

via USB-Stick oer directy with PC via USB

Ambient temperature

-20° C ... +70° C (storage -30°C...+80°C), non condensng

Mechanical strength

Vibrations DIN IEC 68-2-6/mobile devices
Continuous shock DIN IEC 68-2- 29/Eb 250-6-1000/1 (25g)

EMC-Norms

agricultural machines DIN EN ISO 14982: 2009
construction machines DIN EN 13766-1/2: 2018-12
interferences on the line ISO 7637: 2009
load dump ISO 16750-2: 2012-11-01

Data interfaces

2xCAN-Network, USB-OTG