

COMhawk®

The new generation of control devices













COMhawk®

COMhawk® is a control device for communication and diagnostic tasks. In addition to the standard interfaces such as CAN and Ethernet the module also offers a WLAN interface. The variety of interfaces and the extremely rugged IP69K housing opens the module various fields of applications in the automotive and automation area.

Key Features

32 bit

Powerful 32-bit microcontroller



3× CAN interface acc. to ISO 11898 (opt. 4× CAN)



1× Ethernet, 10/100 Mbit/s



WLAN acc. to IEEE 802.11 b/g/n



Data-logging



Protection class IP69K



Vibration protected

Housing and interfaces

The new COMhawk® is equipped with up to four CAN channels, Ethernet, Wi-Fi and optional two digital inputs and one digital output. In addition, great emphasis was placed on an extremely robust and durable design to meet the current safety standards. The control device is designed for the use outside the cabin of a vehicle and is vibration tested. A temperature range of –40 °C to +85 °C and the compact housing with protection class IP69K are ensuring an extensive protection.

Wide field of applications

A powerful 32-bit microcontroller allows even the most demanding applications and thanks to the built-in NAND flash memory of up to 16 GB amounts of data can be stored. Thus COMhawk® can be used both, in the automotive as well as in the automation industry for a variety of communication and diagnostic tasks such as a communication interface, gateway, event logger or telemetry node.

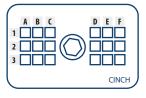
Technical Data

CPU	32-bit microcontroller, SPC 5123 400 MHz
RAM	32 MB up to 256 MB
Memory	16 MB up to 16 GB NAND Flash Memory
CAN	3× CAN acc. to ISO 11898 (optional up to 4× CAN)
Ethernet	1× Ethernet, 10/100 Mbit/s
WLAN	1× IEEE 802.11 b/g/n
IOs	optional 2× DI optional 1× DO
Operating system	RTOS (μC/OS-II) or LINUX
Plug	18-pole Automotive Plug
Housing	IP69K
Dimensions (l×w×h)	approx. 130 mm \times 124 mm \times 38 mm
Weight	375 g
Operating temperature	−40°C up to +85°C
Storage temperature	−40°C up to +85°C
Power supply	6-32 V DC

Comprehensive software support

The freely programmable and real-time capable ECU system can be programmed by the user application specifically. Over a configurable data interface for example an individual configuration of the interfaces or the structure of an application could be solved expeditiously. Furthermore control loops can be mapped easily over an integrated script interpreter. Another advantage is the reusability of this type of programming, whereby future work can even be more efficient. The user profits from a complete development environment.

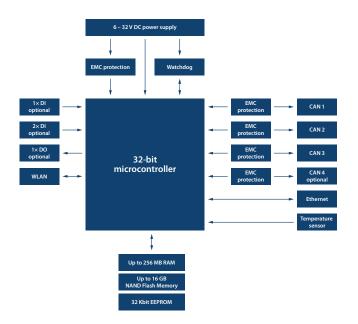
Pin assignment



COMhawk® 1A Ubat 1B 1C 2A GND LAN_SHLD DIG_IN1(opt.) 2B 2C LAN_RX-LAN_RX+ DIG_IN 2 (opt.) LAN_TX— 3B LAN_TX+ 1D DIG OUT 1 (opt.) CAN4_High (opt.) CAN4_Low (opt.) CAN3_Low 2F CAN2_Low 2F CAN1_Low 3D 3E CAN3_High CAN2_High

CAN1_High

Block Diagram





Order information

V930238200 COMhawk®





Mobile Automation



Industrial Automation



Diagnostics



Connectivity

We are looking forward to your enquiry!

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