

COMhawk[®] xt

Embedded Application ECU for mobile machines














COMhawk® xt

COMhawk® xt is an embedded application ECU for telemetry and diagnostic tasks. A variety of interfaces and the extremely rugged architecture opens the module various fields of applications for mobile machines.

Key Features

-  **Powerful ARM Cortex A9**
-  **4× CAN interface acc. to ISO 11898**
-  **GNSS**
-  **2G/LTE**
-  **WLAN acc. to IEEE 802.11 b/g/n**
-  **1× Ethernet, 10/100 Mbit/s**
-  **Data logging**
-  **Vibration protected**
-  **IP67**

Communication interfaces and position determination

The new COMhawk® xt is equipped with four CAN channels and a Ethernet connection. For wireless data exchange, WLAN and LTE CAT4 mobile radio connection are available. The COMhawk® xt is also optional equipped with a GNSS receiver for position determination. Further equipment includes four digital outputs and one digital input (500 mA).

Wide field of applications

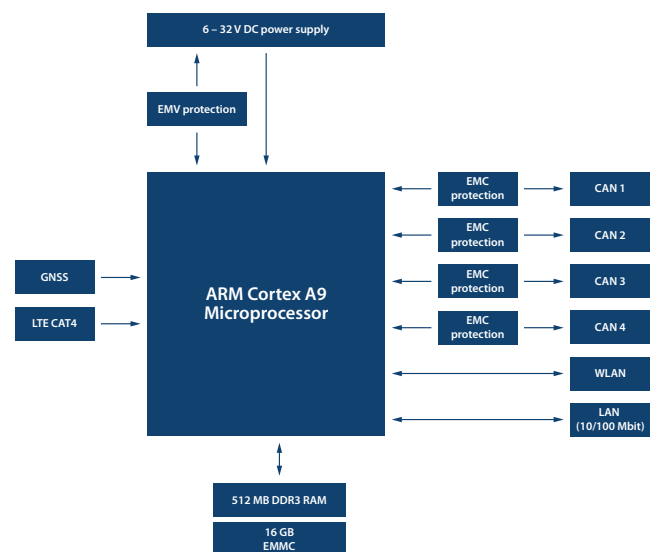
COMhawk® xt can be used for many applications from a simple data logger, which wirelessly transmits the recorded operating data, right up to the central communication, telemetry and diagnostic gateway, which unites different communications standards. Thanks to a temperature range of -20°C to $+80^{\circ}\text{C}$ and the compact housing with protection class IP67, the device is ensuring an extensive protection, even were vibrations and temperature are at their maximum. A Linux operating system provides an easy and optimal basic for creating OEM-applications in a fast way and without any further costs.

Technical Data

Processor	32-bit microcontroller, Cortex-A9 (single/dual core)
RAM	512 MB DDR3 RAM (opt. up to 1 GB)
Memory	16 GB eMMC NAND Flash (opt. up to 64 GB)
CAN	4x CAN acc. to DIN ISO 11898
Ethernet	1x Ethernet, 10/100 Mbit/s
WLAN	1x IEEE 802.11 b/g/n; Client- and Accesspoint-Mode (FAKRA E green)
GNSS	GPS/GLONASS, Beidou (FAKRA C blue)
2G/LTE	LTE CAT4 (FAKRA D violet)
IOs	4x DI, 1x DO (500 mA)
RTC	With 2 weeks buffer
Connector	30-pole automotive connector
Antenna connection	external; 3x FAKRA (opt. SMA)
Operating system	LINUX
Housing	IP67
Dimensions (l×w×h)	about 130 mm × 124 mm × 38 mm
Weight	app. 375 g
Operating temperature	-20 °C to +80 °C (higher temperature classes on demand)
Storage temperature	-40 °C to +85 °C
Power supply	6-32 V DC, incl. load dump protection
SIM Card	Including Sontheim SIM
Certifications	Europe



Block Diagram



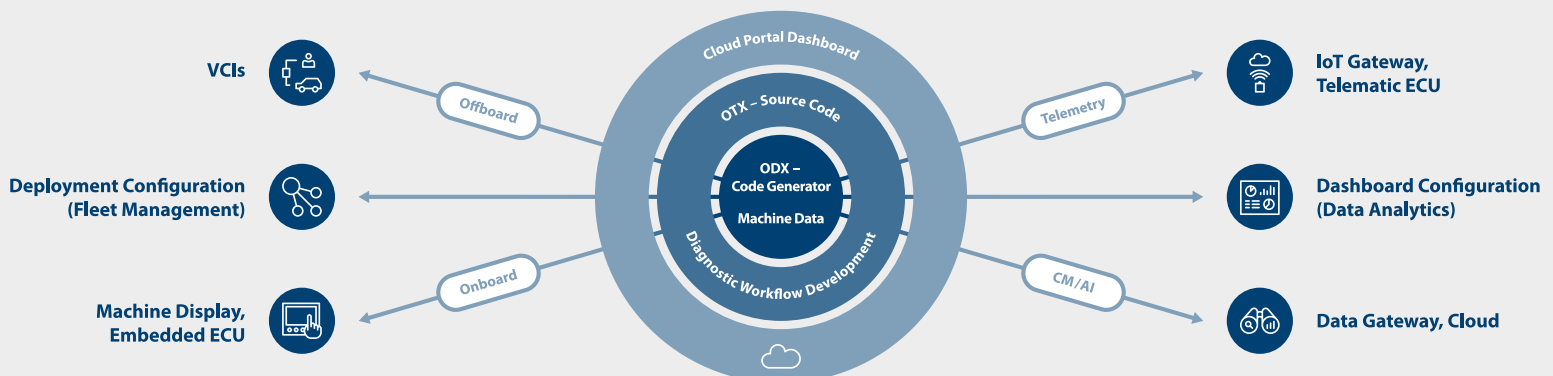
The Sontheim Modular Diagnostic Tool Chain

You can easily create your individual and professional diagnostic solution for automotive application with the help of the Sontheim interfaces and diagnostic software. Some use cases by linking hardware and software are:

- CAN data visualization, monitoring and processing
- Parameterization and control of whole CAN networks
- Vehicle diagnostics
- Flash processes of electronic control units (ECUs)

Order information

V930238600	COMhawk® xt
V966306450	Hirschmann Antenna
V940871100	IoT Device Manager
V940871200	IoT Analytics Manager





Mobile Automation



Industrial Automation



Diagnostics



Connectivity

We are looking forward to your enquiry!

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