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sontheim
Industrie Elektronik GmbH

wifiCAN

Wireless CAN-diagnostic interface

wifiCAN

The wifiCAN is the latest interface of the Sontheim fieldbus-to-WLAN adapter. A powerful microcontroller and wireless data transmission makes the wifiCAN an extremely flexible and easy tool for monitoring CAN networks, logging data, setting parameters of machines or vehicles and more.

Housing and interfaces

It is housed in a compact plastic case and offers a CAN channel which is carried out in accordance to ISO 11898. Over the wireless interface, wifiCAN can be used at any laptop or desktop PC with a Wi-Fi interface and also firmware updates can be installed. An ad-hoc mode enables a direct connection between the wifiCAN and Wi-Fi port of the notebook/PC. An integration of wifiCAN to an existing Wi-Fi infrastructure is also possible.

Wireless data transmission up to 65 Mbit/s

The new Sontheim wifiCAN simplifies your data transmission thanks to Wi-Fi technology. With up to 65 Mbit/s the data will be transferred wirelessly according to IEEE802.11b/g/n standard. Consequently wifiCAN offers all important interfaces located in a tiny case for mobile or stationary use.

Data-logging and customized possibilities

Thanks to the 32bit microcontroller a fast data handling with low power consumption is possible. The power supply can be effected from 9V to 42V and be customized. You can configure the baud rate from 50Kbit to 1Mbit freely via software and adapt it to your process requirements. Also the CAN connection can be adapted to the customer's request (SubD9, ISO bus connector, ...). Additionally wifiCAN is equipped with a micro SD card with up to 2GB of memory that can be used for logging data.

Comprehensive software support

Of course, wifiCAN is supported by all Sontheim software like CANexplorer4 for CAN-bus diagnostics or MDT for vehicle applications like diagnostics or End-of-Line processes. Additionally, with purchasing an interface you get the programming interface (API) for integrating the wifiCAN into your own software. Thanks to the CANfox mapping, applications can be taken simply and without changes from CANfox to wifiCAN.

wifiCAN — Technical data

Hardware

Housing	compact plastic
CAN-interface	1x SubD9 acc. to CiA, CAN ISO 11898
WLAN	65 Mbit/s, acc. to IEEE802.11b/g/n
Baud rate	50 kBit to 1 Mbit/sec, free configuration
Max. data transmission	1 Mbit / 90 % bus load
Power supply	over CAN-interface
LEDs	3 x 3 mm LED
Microcontroller	32Bit NXP micro controller LPC2458
Operating temperature	0°C to +50°C
Storage temperature	-10°C to +60°C
Humidity	10% - 90% non condensing

Software

CANAPI (=Windows DLL)	Windows 2000, XP, Vista, 7, 8 32 Bit and 64 Bit Windows 98 on request
CANexplorer4	Analyzer for the CAN-Bus
MDT Authoring System	Creation of vehicle diagnostic applications

CAN-interface — Pin assignment

|	CAN
1	Reserved
2	CAN L (low)
3	CAN Ground
4	Reserved
5	Optional CAN shield
6	GND
7	CAN H (high)
8	
9	CAN V (external supply)

wifiCAN — Reset option

The Sontheim Modular Diagnostic Tool Chain

You can easily create your individual and professional diagnostic solution for automation or automotive applications with the help of the Sontheim interfaces and diagnostic software. Some examples of our customers' use cases are:

- CAN-data visualization, monitoring and processing
- Parametration and control of whole CAN networks
- Vehicle diagnostics
- Flash processes of electronic control units (ECUs)
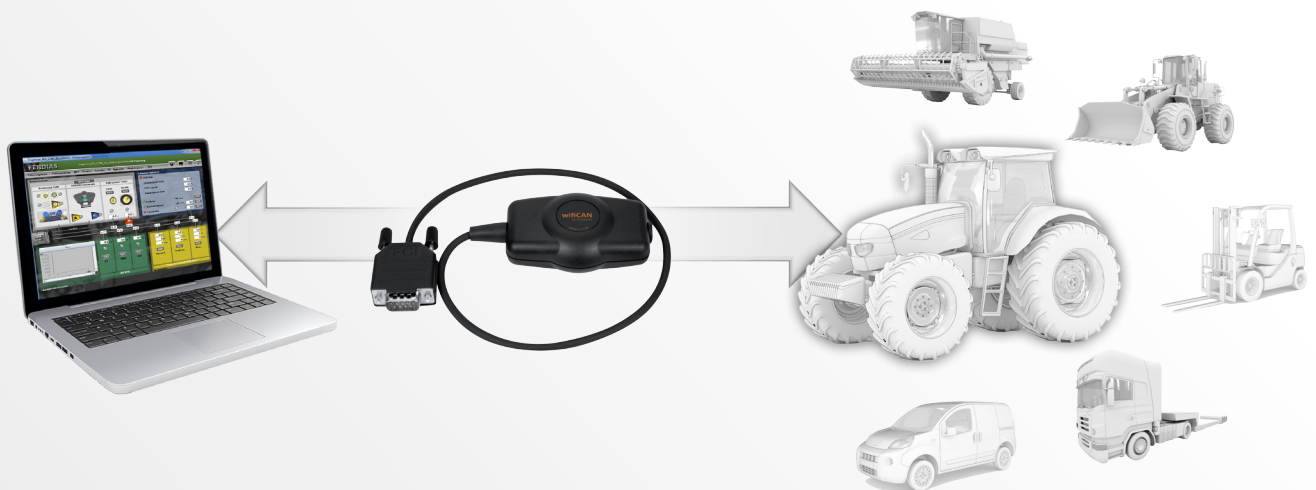
Product out of the Sontheim Portfolio:

Diagnostics   Fieldbus

Automation   Automotive
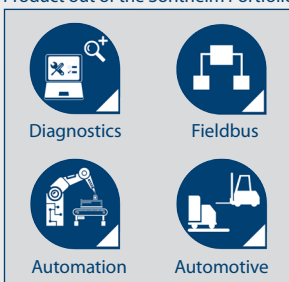
Ordering information

V930341110	wifiCAN

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Sontheim Overview and Portfolio:

Engineering

Fieldbus
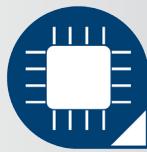
Hardware-Development

Software-Development

Diagnostics

Automation

Automotive

Production

Service

We are looking forward to your enquiry. For a personal advice and detailled information please refer to our specialists:

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