Product Brief

XMC4800 Automation Board V2

Explore XMC4800 microcontroller based on ARM® Cortex®-M4

The XMC4800 Automation Board V2 utilizes Infineon’s industry leading XMC ARM® Cortex®-M4 microcontroller in combination with Infineon supply, interface, communication and safety products. The XMC4800 Automation Board V2 is designed to evaluate the capabilities of the XMC4800 microcontroller especially in EtherCAT® slave applications and can be used with a wide range of development tools including Infineon’s free of charge Eclipse based IDE, DAVE™.

Key features

- XMC4800-E196 MCU based on ARM® Cortex®-M4 at 144 MHz
- EtherCAT® slave controller, 2 MB flash and 352 KB RAM
- OPTIGA™ Trust E embedded security solution (CC EAL6+)
- Real time clock crystal
- SPI FRAM (64 kB non-volatile memory)
- EtherCAT® slave node (2 EtherCAT® PHY and RJ45 Jacks)
- 24 V ISOFACE™ 8-channel inputs and 8-channel outputs CAN transceiver
- CAN transceiver
- Complete Automation kit gateway
- Combined MCU with EtherCAT slave application
- Isolated interfaces w/ diagnose
- Ethernet connectivity with software examples available
- 24 V Supply
- CAN connectivity
- Full software DAVE™ examples

Key benefits

- Commercial, Construction and Agricultural Vehicles (CAV)
- Building and automation
- Industrial
- Micro PLC
- Motor control and drives

Key applications

www.infineon.com/automationkit
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Block diagram

The block diagram shows the main components of the XMC4800 Automation Board V2 and their interconnections. The main building blocks are:
- XMC4800 microcontroller in a LFBGA-196 package
- 2 EtherCAT® PHY with 2 RJ45 plugs
- 1 Ethernet PHY with RJ45 plug
- 24 V ISOFACE™ 8-channel inputs and 8-channel outputs
- RGB LED, CAN RG LED, reset push-button
- Micro-AB USB plug
- CAN transceiver with SUB 9 connector

Product table

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