Product brief

XMC4800 IoT Amazon FreeRTOS connectivity kit WiFi

Explore XMC4800 microcontroller based on ARM® Cortex®-M4 in the IoT cloud

The XMC4800 IoT Amazon FreeRTOS connectivity kit with EtherCAT® utilizes Infineon’s industry leading XMC ARM® Cortex®-M4 microcontroller in combination with WiFi Click-Board module from Mikroelektronika. The XMC4800 IoT Amazon FreeRTOS connectivity kit with EtherCAT® is designed to evaluate the capabilities of the XMC4800 microcontroller especially in IoT cloud application solutions, adding the EtherCAT® slave features and can be used with a wide range of development tools including Infineon’s free of charge Eclipse based IDE, DAVE™, Amazon FreeRTOS and much more.

Key features

- XMC4800-F100 MCU based on ARM® Cortex®-M4 at 144 MHz
- EtherCAT® slave controller, 2 MB flash and 352 KB RAM
- Mikroelectronica WiFi Click module included
- EtherCAT® slave node (2 EtherCAT® PHY and RJ45 Jacks)
- 24 V ISOFACE™ 8-ch inputs and 8-ch outputs CAN transceiver
- CAN transceiver

Key benefits

- Full software support of AWS Amazon FreeRTOS
- Combined MCU with EtherCAT® slave application
- Arduino compatibility
- SEGGER debugger
- mikroBUS™ ClickBoard interface
- CAN connectivity
- Full software DAVE™ examples

Key benefits

- Cloud connected IoT devices
- Building and automation
- Industrial
- Micro PLC
- Motor control and drives

www.infineon.com/connectivitykit
The block diagram shows the main components of the XMC4800 IoT Amazon FreeRTOS connectivity kit WiFi and their interconnections.

The main building blocks are:

- XMC4800 microcontroller in a LQFP-100 pin package
- 2 EtherCAT® PHY with 2 RJ45 plugs
- 1 mikroBUS™ connector
  (ClickBoard Mikroelectronica for WiFi connectivity)
- Arduino connector
- CAN transceiver with SUB 9 connector

Product table

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