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KIT_XMC7200_MC1

Overview

XMC7200 Complete System Motor Control Kit

This complete system motor control kit is designed to demonstrate the advanced motor control capabilities of the XMC7200 microcontroller, providing a complete out-of-the-box experience. The kit includes everything you need, featuring a motor, power board, drive card and power supply, allowing you to focus on developing your application without worrying about component sourcing. To accelerate your development, we've included dedicated code examples, which are easy to use and understand, enabling you to rapidly prototype and test your motor control designs using

ModusToolbox™ (</cms/en/design-support/tools/sdk/modustoolbox-software/modustoolbox-industrial/>)

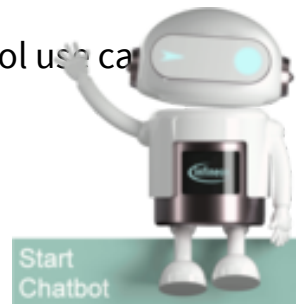
Summary of Features

- Quad - 3 phase motor control
- Segger Jlink On board debugger with isolation
- Multiple feedback sensors
- Wifi connectivity using add-on module
- High density connector
- Isolated single power supply

Benefits

- Out-of-the-box experience
- Ease-of-use
- Maximum design flexibility
- Multi-connectivity enablement
- "Real life" motor control use case

Kit Contents



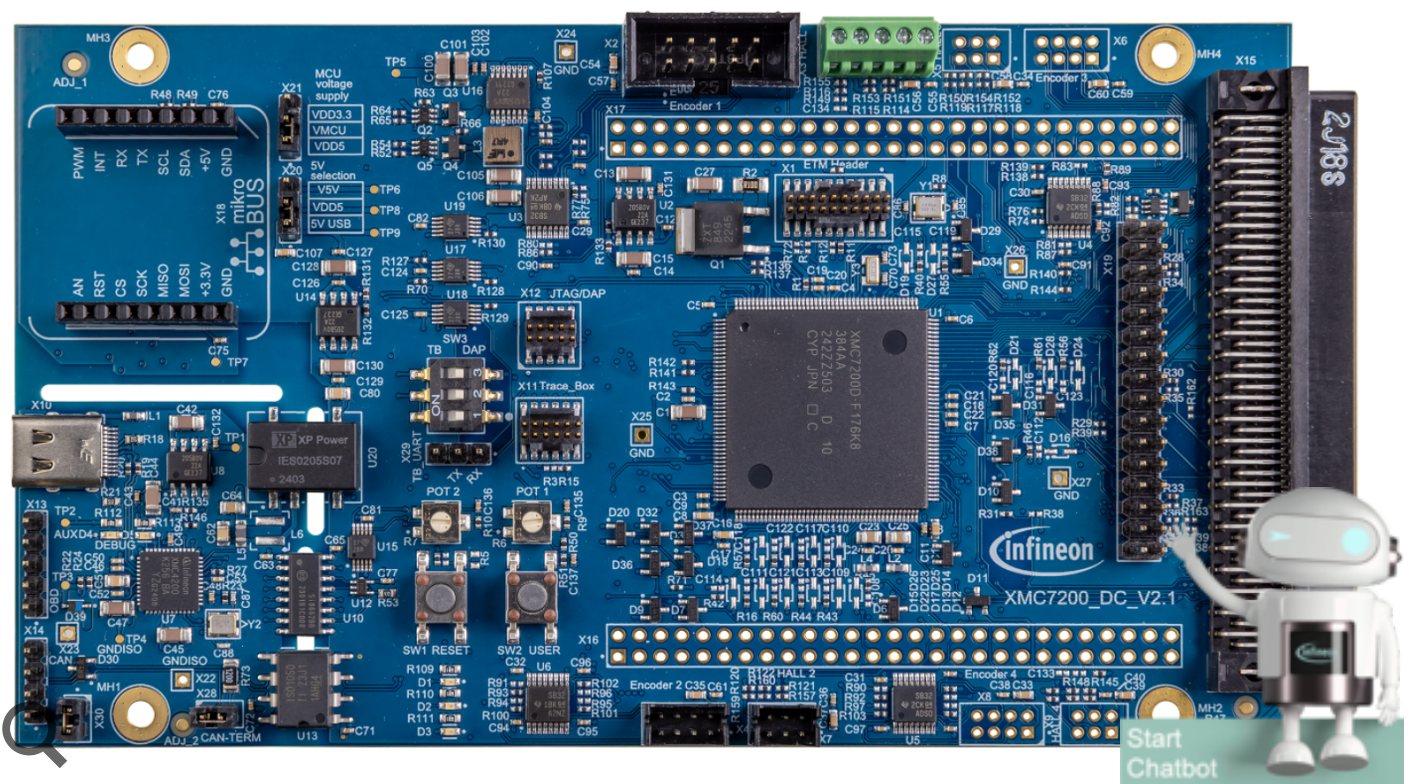
- KIT_XMC7200_DC_V1
- KIT_MOTOR_DC_250W_24V
- Adapter board
- Power supply
- Nanotec motor (DB42M03)
- USB C to USB A 2.0 cable

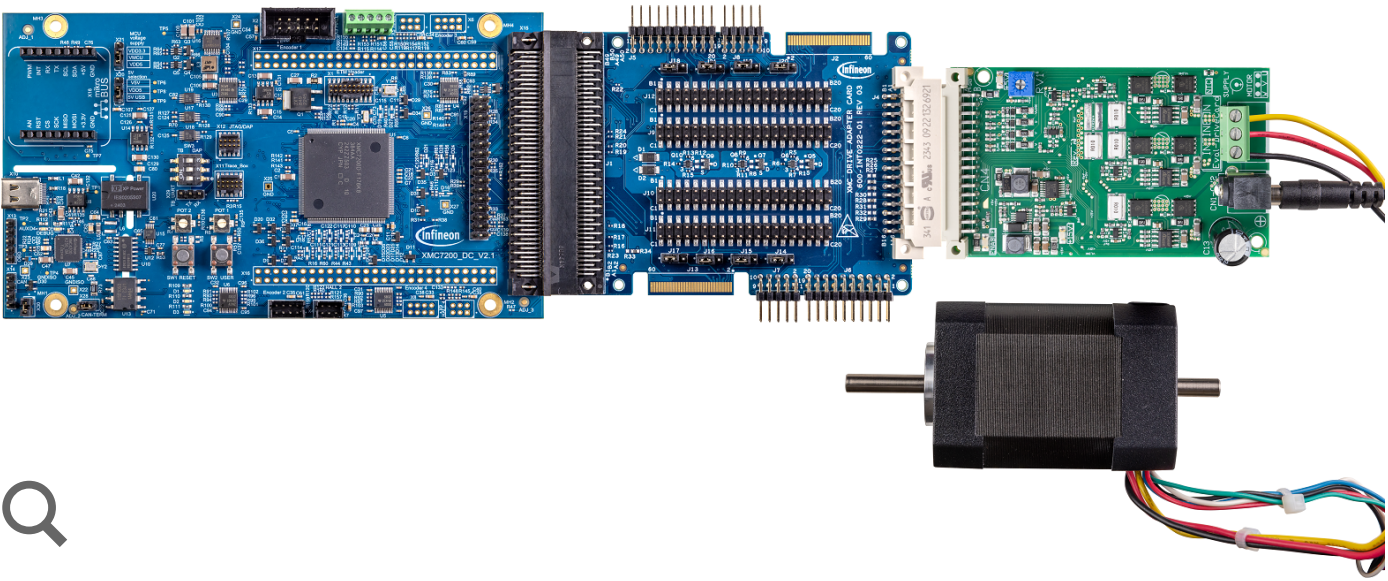
Potential Applications

- Servo drives
- General purpose drives
- Robotics
- Multiconter



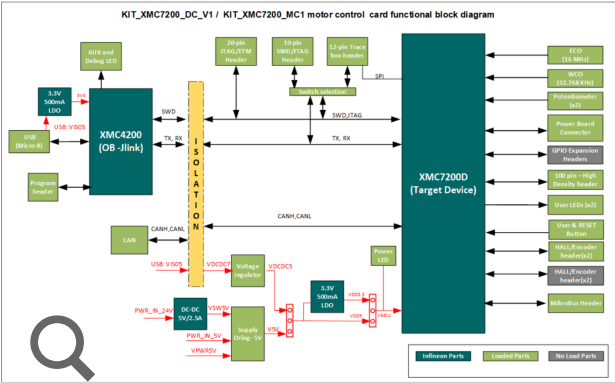
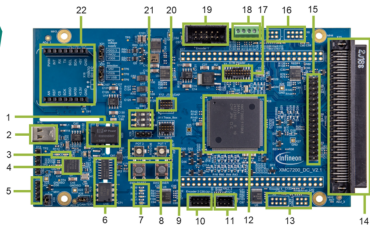
Light electric vehicles





Diagrams

- 1) DC-DC
- 2) USB Type C socket
- 3) DEBUG and AUX LEDs
- 4) XMC4200 MCU (Jlink Lite)
- 5) Isolated CAN header
- 6) SWD/UART/CAN isolators
- 7) USER LEDs
- 8) USER and RESET buttons
- 9) Potentiometers
- 10) Motor2 Encoder input
- 11) Motor2 HALL sensor input
- 12) XMC7200D-F17K8384 MCU
- 13) Motor4 Encoder & HALL inputs
- 14) HD 100 pin connector
- 15) MADK MS pinout header
- 16) Motor3 Encoder & HALL inputs
- 17) ET1 pinout header
- 18) Motor1 HALL sensor inputs
- 19) Motor1 Encoder input
- 20) 10 pin SWD/JTAG header
- 21) Debug interface selection
- 22) MikroBUS header



Parametrics

Parametrics	KIT_XMC7200_MC1	 Start Chatbot
Board Type	Evaluation Board	

Parametrics	KIT_XMC7200_MC1
Family	Microcontroller
Input Type	DC
Output Voltage	5 V
Qualification	Industrial
Software Ecosystem	ModusToolbox™ for Industrial
Supply Voltage min max	7 V 12 V
Target Application	Industrial

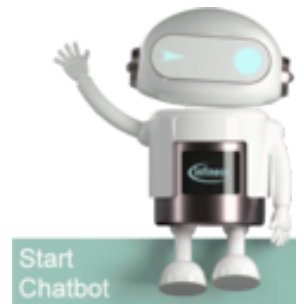
Documents

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ret=https%3A%2F%2Fwww.infineon.com%2Fcms%2Fen%2Fproduct%2Fevaluation-boards%2Fkit_xmc7200_mc1%2F%23!documents)
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+ Expand all

+ Product Brief





ModusToolbox_ Motor Suite Product Brief **NEW** (/dgd/Infineon-ModusToolboxMotor_Suite_Product_Brief-ProductBrief-v01_00-EN.pdf?fileId=8ac78c8c92bcf0b00192fdb361b5f7e)

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+ Application Notes



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+ User Manual





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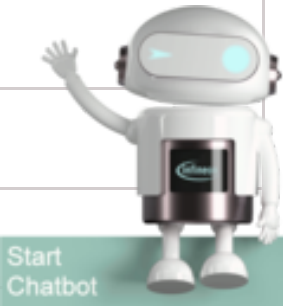
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Sales Product Name	KIT_XMC7200_MC1
OPN Info	KITXMC7200MC1TOBO1
Product Status	active and preferred
Infineon Package name	--



Sales Product Name	KIT_XMC7200_MC1
Standard Package name	
Order online	
Completely lead free	
Halogen free	
RoHS compliant	yes
Packing Size	
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

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