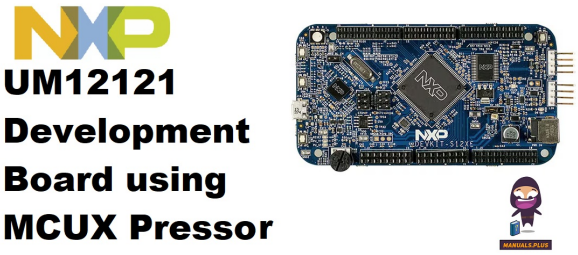

NXP UM12121 Development Board using MCUX Pressor User Manual

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NXP UM12121 Development Board using MCUX Pressor

Product Information

Specifications

- **Target MCU:** NXP MCXA156
- **Core**: Arm Cortex-M33 running at speeds up to 96 MHz
- **Supports:** Industrial communication protocol, BLDC motor/PMSM control, sensor interfaces (MIPI I3C, I2C, SPI)
- **Compatibility**: Arduino boards, motor control boards, Mikroe click boards, Pmod boards
- **Development Tools**: NXP MCUXpresso IDE, IAR Embedded Workbench, Arm Keil MDK
- **Debug Probe**: Onboard MCU-Link based on NXP LPC55S69
- **Interfaces**: USB Type-C, CAN, SWD, GPIO/PWM, UART/SPI/I2C/ADC/PWM, and more
- Lead-free and RoHS-compliant

Product Usage Instructions

1. **Powering the Board**
   Connect the FRDM-MCXA156 board to a power source using the USB Type-C connector.
2. **Programming the MCU**
   Use development tools such as NXP MCUXpresso IDE, IAR Embedded Workbench, or Arm Keil MDK to program the MCXA156 MCU.
3. **Debugging**
   For debugging purposes, utilize the onboard MCU-Link debug probe connected via USB Type-C.
4. **Interfacing with Peripherals**
   The board supports various interfaces including UART, SPI, I2C, ADC, and PWM. Connect peripherals to the corresponding headers or sockets based on your requirements.
5. **Compatibility with Expansion Boards**
   Utilize the Arduino/FRDM headers, mikroBUS headers, and Pmod header to connect compatible expansion boards for additional functionality.

FAQ

Q: Can I use the FRDM-MCXA156 board with Arduino UNO R3?
A: Yes, the board is compatible with Arduino UNO R3.

Q: What are the supported development tools for programming the MCXA156 MCU?
A: Supported development tools include NXP MCUXpresso IDE, IAR Embedded Workbench, and Arm Keil MDK.

Q: Does the board support industrial communication protocols?
A: Yes, the board supports industrial communication protocols along with other features suitable for IoT applications.

Documents / Resources

	NXP UM12121 Development Board using MCUX Pressor [pdf] User Manual UM12121 Development Board using MCUX Pressor, UM12121, Development Board using MCUX Pressor, Board using MCUX Pressor, using MCUX Pressor, MCUX Pressorr, Pressorr

References

- **LinkServer for Microcontrollers | NXP Semiconductors**
- **User Manual**

Manuals+, **Privacy Policy**

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