



SECURE CONNECTIONS
FOR A SMARTER WORLD

HVP-56F80748 HIGH-VOLTAGE DEVELOPMENT PLATFORM



GET TO KNOW THE HVP-56F80748 BOARD

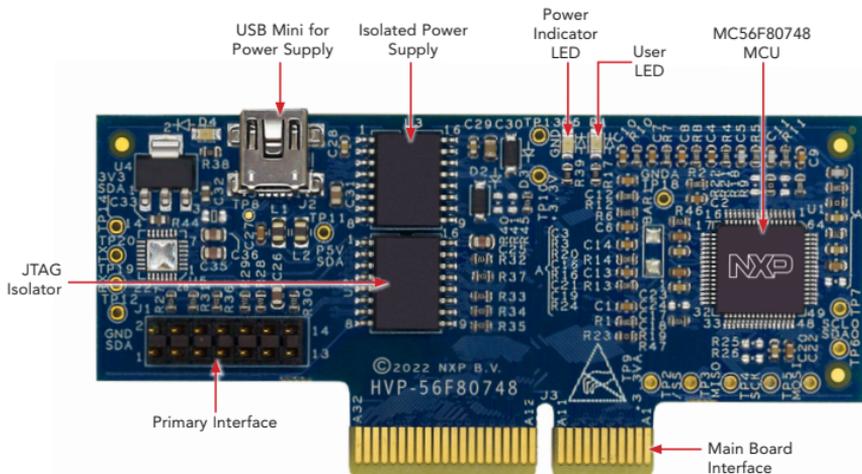


Figure 1: Front side of HVP-56F80748

HVP-56F80748 HIGH-VOLTAGE DEVELOPMENT PLATFORM

The NXP high-voltage development platform is a set of software and hardware tools for evaluation and development of high-voltage motor control and power conversion algorithms. NXP designed this platform for rapid prototyping of high-voltage microcontroller-based applications

INTRODUCTION TO HVP-56F80748 HIGH-VOLTAGE DEVELOPMENT PLATFORM

The HVP-56F80748 controller card is a development platform for the DSC 56F8xxxx family, which in combination with one of HVP-MC3PH high-voltage development platform, provides ready-made software and hardware development for high-voltage motor control and power conversion applications.

HVP-56F80748 CONTROLLER CARD FEATURES

- Accommodates target MC56F80748 MCU (32-bit DSP core with single-cycle math computation, 100 MHz, 64 KB flash, 2 x 12-bit ADCs, high-resolution PWM, 64LQFP) JTAG isolation up to 5 KV
- Galvanic isolation
- Design optimized for low noise
- Onboard isolated power supply; allows safe debugging
- Controller card allows stand-alone operation

STEP-BY-STEP INSTRUCTIONS

- HVP-56F80748 can be powered by the USB connector (J2), or PCI express connector. Beware that the analog power 3.3VA is not on for 56F80748 when it is powered only with this USB connector
- When the board is powered up, a green LED D5 will illuminate, indicating 3.3V is on
- J12 is the JTAG connector that can be used to debug/program 56F80748
- J2 is also a Virtual serial port connector, CP2102N (U5) is not populated by default. If virtual serial connection is needed, please weld on U5, C35, C36, R44, R40 and R41. USB to UART bridge VCP Drivers are also needed

TOOLS REQUIRED

- CodeWarrior® Development Studio for MCU version 11.2 or later



GET STARTED

Download installation software and documentation under “Jump Start Your Design” at www.nxp.com/HVP-56F80748

SUPPORT

Visit www.nxp.com/support for a list of phone numbers within your region.

WARRANTY

Visit www.nxp.com/warranty for complete warranty information.

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