



## Quick Start Guide

# MPC5775B BMS+VCU RDB

Solution for electric vehicle high voltage battery management system application



## Quick Start Guide

### GET TO KNOW THE MPC5775B BMS+VCU RDB

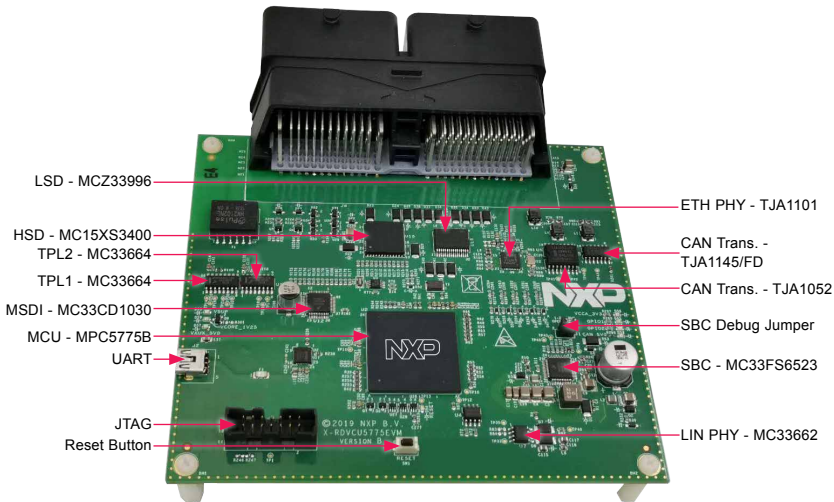


Figure 1: Top elevation of MPC5775B domain controller board

## MPC5775B BMS+VCU REFERENCE DESIGN PACKAGE

### **HARDWARE:**

- MPC5775B domain controller reference design board
- ECU 130-pin connector cable
- Mini USB cable

### **SOFTWARE:**

- S32 SDK demo app project
- AUTOSAR® MCAL demo app project
- S32 SDK demo bootloader project
- PC GUI project

### STEP-BY-STEP INSTRUCTIONS

This section covers software download, development kit setup, and application development.

#### 1 Download and Install FTDI Driver for UART

Visit [ftdichip.com/drivers/vcp.htm](http://ftdichip.com/drivers/vcp.htm) to download the correct driver. Install the FT230x virtual COM port driver. Go to the Device Manager and right-click the COM port detected and select Update Driver Software.

#### 2 Download and Install Software for S32DS project

Download and install the S32 Design Studio for Power Architecture® based MCUs IDE and S32 SDK for Power Architecture RTM 3.0.0. These software are used to develop the SDK project.

#### 3 Download and Install Software for AUTOSAR MCAL project

Download and install the EB tresos 20.1.0 IDE, MPC5777C\_MCAL4\_0\_RTM\_HF4\_1\_0\_1, Green Hills Compiler 2018.5. These software are used to develop MCAL project.

## STEP-BY-STEP INSTRUCTIONS CONTINUED

### 4 Pre-condition of the GUI

If you want to directly use the GUI in the given SW package, you need to prepare bellow development environment, otherwise skip the step:

- Use PCAN-USB Pro CAN adapter
- Install Python3.7(64-bit) and PyQt5

### 5 Application Development

The SW package include two demo app projects: SDK and MCAL. For details, please refer to the User Guide.

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## PRODUCT COMMUNITY

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## Get Started

Download installation software and documentation under **"Jump Start Your Design"** at [www.nxp.com/RDVCU5775EVM](http://www.nxp.com/RDVCU5775EVM).

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