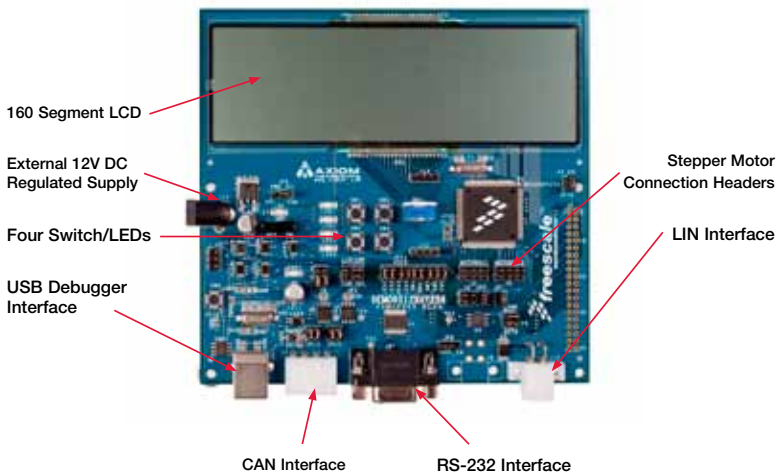# Quick Start Guide

DEMO9S12XHY256
Ideal platform for automotive
instrument cluster applications

Get to Know the DEMO9S12XHY256

160 Segment LCD

External 12V DC
Regulated Supply

Four Switch/LEDs

USB Debugger
Interface

Stepper Motor
Connection Headers

LIN Interface

CAN Interface

RS-232 Interface

DEMO9S12XYH256 Features

- On-board 4x40 custom LCD glass
- Two high-speed CAN physical layer transceivers
- Enhanced LIN physical layer transceiver
- RS-232 serial data physical layer transceiver
- Integrated USB-BDM. BDM_PORT header for external BDM cable support
- MCU_PORT pin header for access to MCU I/O signals
- On-board +5V regulator
- Optional power from USB-BDM or MCU_PORT connector
- Power input selection jumpers, select from USB-BDM, on-board regulator or connector J1. Optional power output through connector J1
- User components provided, including five push switches, six LED indicators and 5K ohm POT with LP filter
- User option jumpers to disconnect peripherals
- 40-pin MCU I/O pin header, barrel connector, BDM_PORT connector for external BDM cable and USB/DB9/CAN cable/LIN cable connector

Step-by-Step Installation Instructions

In this Quick Start Guide, you will learn how to set up the DEMO9S12XHY256 board and run the default exercise.

1 Install CodeWarrior Development Studio

The DEMO9S12XHY256 board ships with the latest version of CodeWarrior Development Studio for Freescale HCS12(X) microcontrollers. CodeWarrior Development Studio is a complete integrated development environment (IDE) that provides a highly visual and automated framework to accelerate the development of the most complex embedded applications.

2 Launch the Demo Program

The DEMO9S12XHY256 ships with a demonstration program pre-loaded into on-chip flash memory. The demonstration program turns on all segments of the LCD and exercises various peripherals of the board.
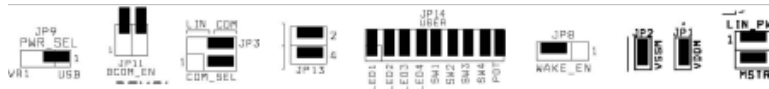
The DEMO9S12XHY256 board ships with an Axiom Quick Start Guide. Refer to these detailed instructions when necessary.

3 Learn More About the S12XHY

More materials are available on **freescale.com/S12XHY**.

Default Jumper Positions for the DEMO9S12XHY256

For more information, please visit
freescale.com/S12XHY