

bq27542-G1 HDQ

Enter ROM Mode

- Go to Advanced Comm on bqStudio



Enter ROM Mode

- I2C Address: 0xAA
- Start Register : 0x00
- Bytes to Write : 0x000F
- Click Write
- Change I2C Address: 0x16

The screenshot shows a software window titled "Advanced Comm I2C" with a "Registers" tab. The "I2C Master Control Panel" section contains the following fields and controls:

- Byte Read/Write** section:
 - I2C Address (Hex):
 - Start Register (Hex):
 - Bytes to Write (Hex): (with a scrollable list area below it)
 -
- Number of Bytes to Read (Decimal)**:

The **Transaction Log** section contains the following table:

TimeStamp	Rd/Wr	Address	Register	Length	Data
2015-10-06 11:27:38 769	Rd	AA	00	2	01 02
2015-10-06 11:27:49 331	Wr	AA	00	2	00 0F

Enter HDQ Mode – Command Sequence

- I2C Command 0x00: Byte 0x16
- I2C Command 0x04: Byte 0x05
- I2C Command 0x64: Byte 0x1B
- I2C Command 0x65: Byte 0x00
- Finish the programming process by exiting ROM mode and sending the following commands:
 - I2C Command 0x00: Byte 0x0F
 - I2C Command 0x64: Byte 0x0F
 - I2C Command 0x65: Byte 0x00

Enter HDQ Mode – Sending a Command

- Example:
 - I2C Command 0x65: Byte 0x00
 - I2C Address: 16
 - Start Register: 65
 - Bytes to Write: 00
 - Click Write
- Enter the commands series on the previous slide using this format.

Advanced Comm I2C

I2C Master Control Panel

Byte Read/Write

I2C Address (Hex)

Start Register (Hex)

Bytes to Write (Hex)

Number of Bytes to Read (Decimal)

Transaction Log

TimeStamp	Rd/Wr	Address	Register	Length	Data
2015-10-06 11:33:58 704	Wr	16	00	1	16
2015-10-06 11:34:08 781	Wr	16	04	1	05
2015-10-06 11:34:16 846	Wr	16	64	1	1b
2015-10-06 11:34:21 961	Wr	16	65	1	00
2015-10-06 11:34:30 542	Wr	16	00	1	0f
2015-10-06 11:34:34 768	Wr	16	64	1	0f
2015-10-06 11:34:40 010	Wr	16	65	1	00

Enter HDQ Mode

- Device is now in HDQ mode.
- Switch port to HDQ on EVM and EV2300.
- bqStudio should detect the EVM and reflect HDQ.

The screenshot shows the bqStudio Dashboard interface. At the top, it says "Dashboard" and "Auto Refresh is ON - Click to Turn OFF". Below that, it displays "bqStudio Version: 1.3.42". The main content area shows a USB cable icon labeled "EV2300 Version:3.1r". Below the cable is a green double-headed arrow icon labeled "HDQ". Underneath is a component icon labeled "bq27542G1 0542_2_01 Addr: N/A 24.1 °C". Below the component is a battery icon showing "3098 mV" and "0%". At the bottom is a circular gauge with a scale from -500 to 2000 and a needle pointing to 0.