

XMC Digital Power Explorer Kit

Getting Started



Agenda (1/2)

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- Where to download Example Projects?

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- How to load Example Project in DAVE™?

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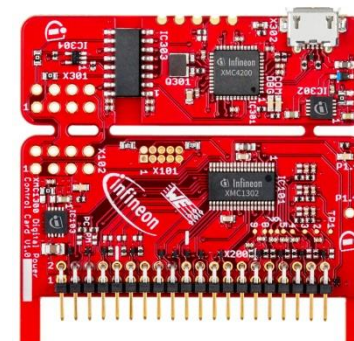
– Example – XMC4200 Buck Converter in Voltage Control Mode

4b

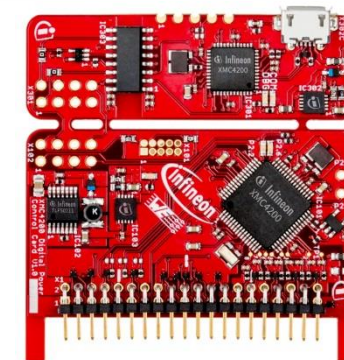
– Example – XMC1300 Buck Converter in Voltage Control Mode

Kit Overview (1/2)

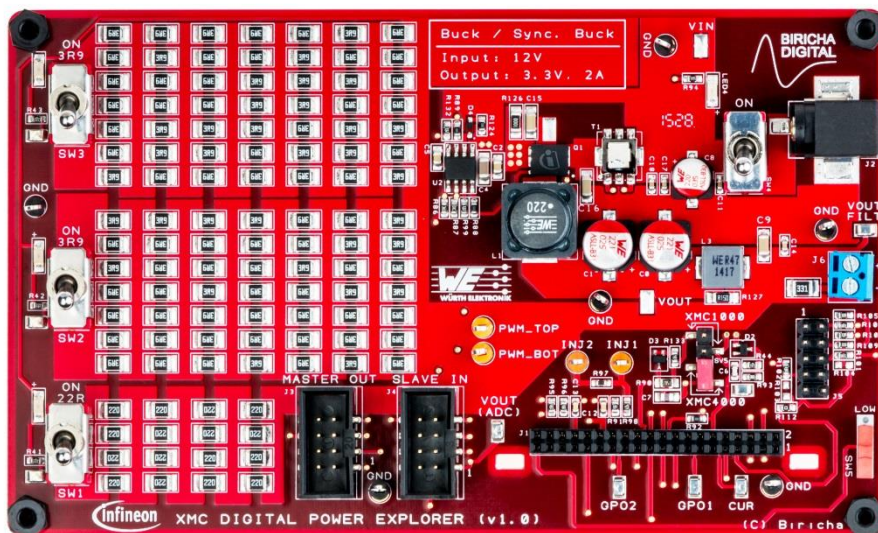
- › XMC Digital Power Explorer Kit
 - › XMC1300 Digital Power Control Card
 - › XMC4200 Digital Power Control Card
 - › XMC Digital Power Explorer Board



XMC1300 Digital Power Control Card



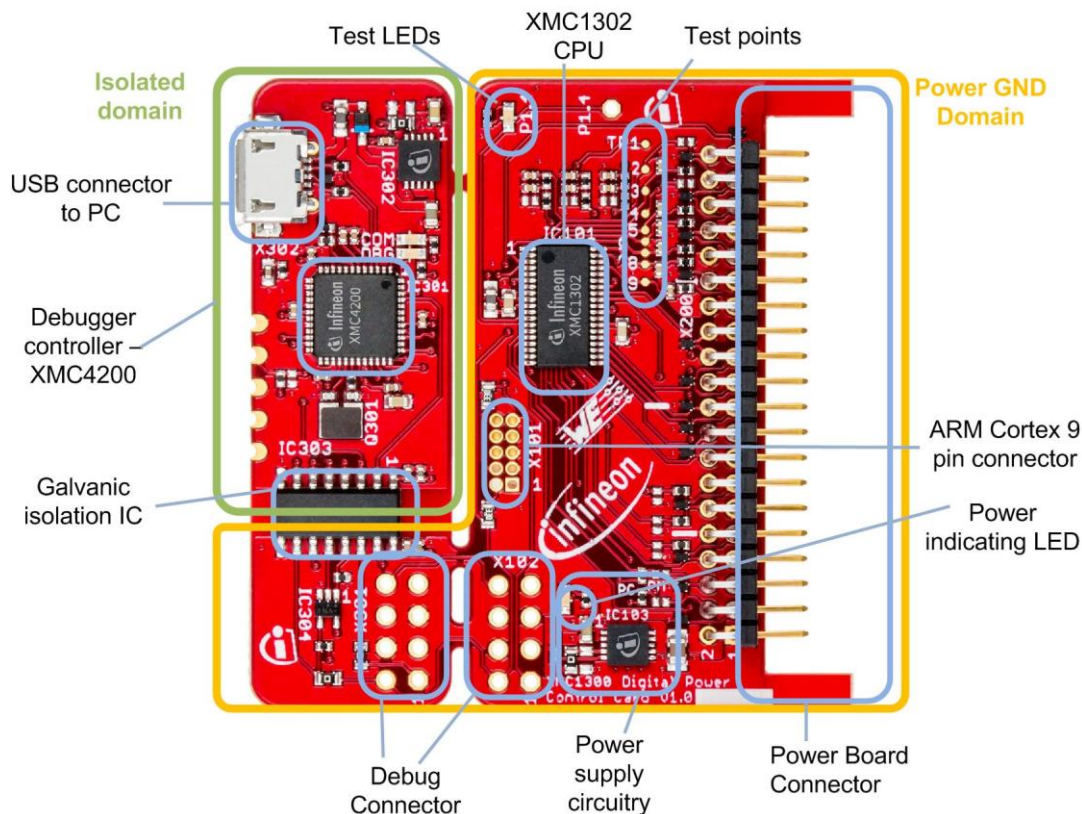
XMC4200 Digital Power Control Card



XMC Digital Power Explorer

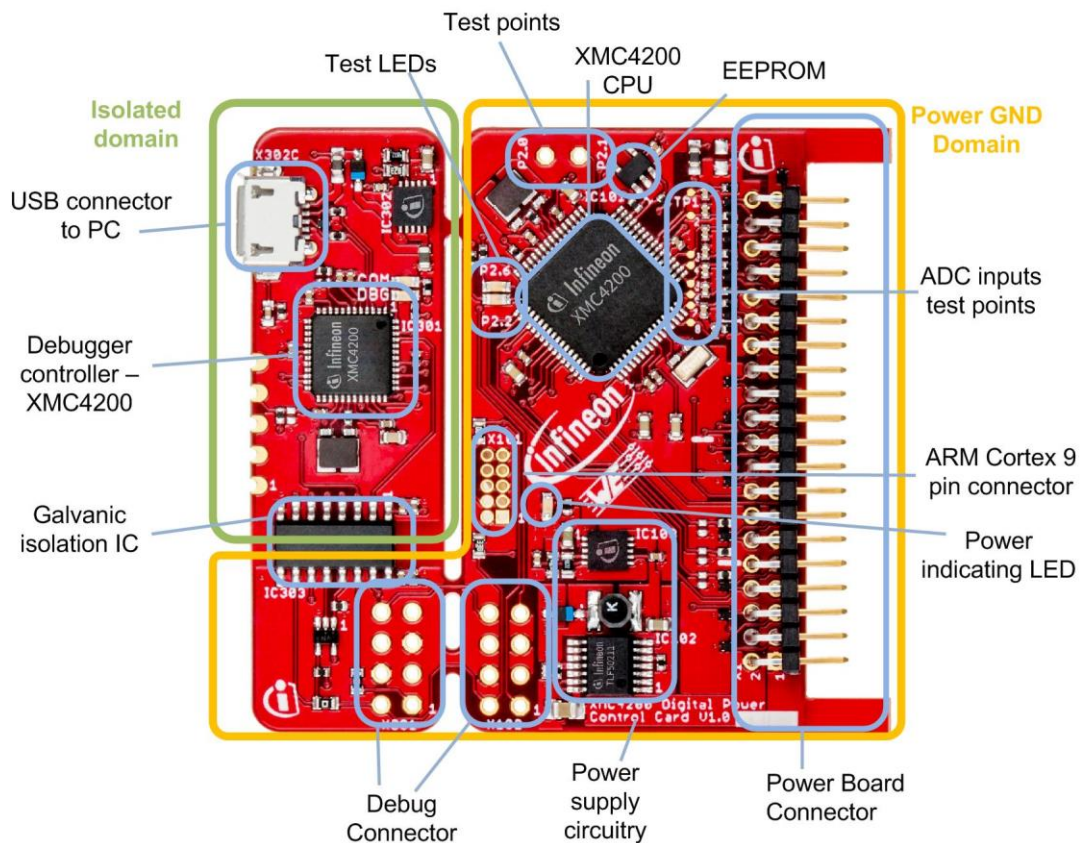
Kit Overview (2/2)

› XMC1300 Digital Power Control Card



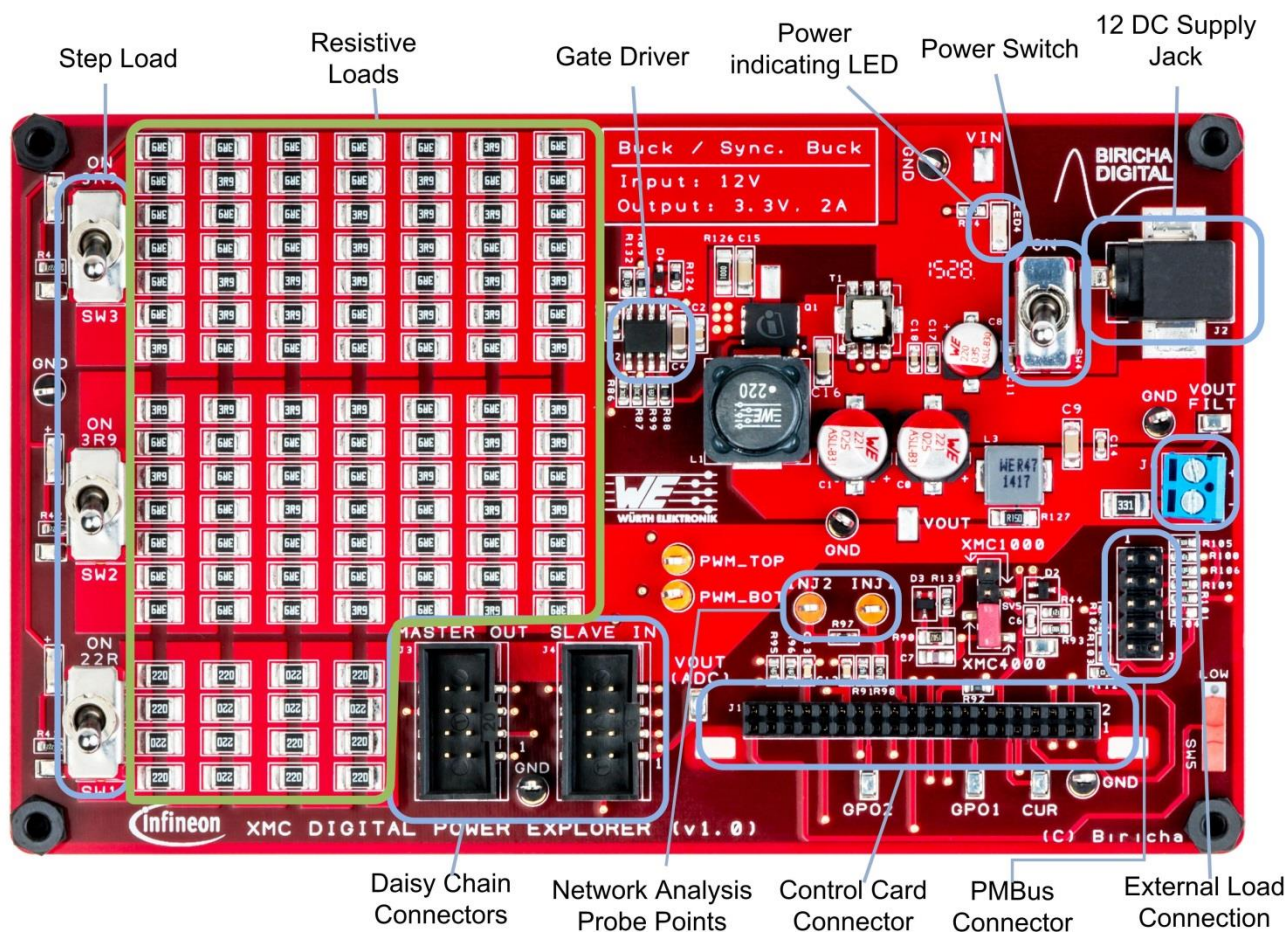
Kit Overview (2/2)

› XMC4200 Digital Power Control Card



Kit Overview (2/2)

› XMC Digital Power Explorer



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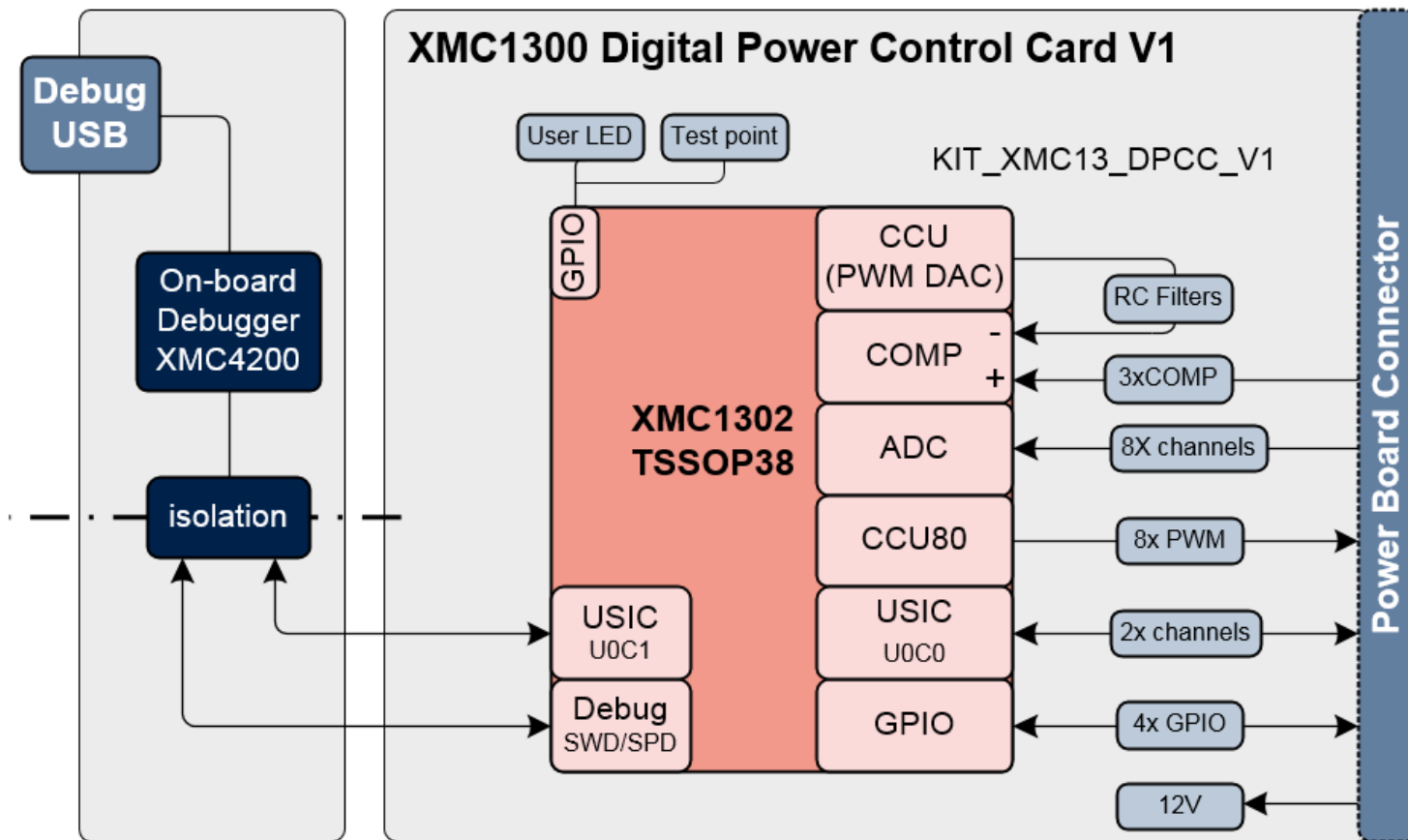
– Example – XMC4200 Buck Converter in Voltage Control Mode

4b

– Example – XMC1300 Buck Converter in Voltage Control Mode

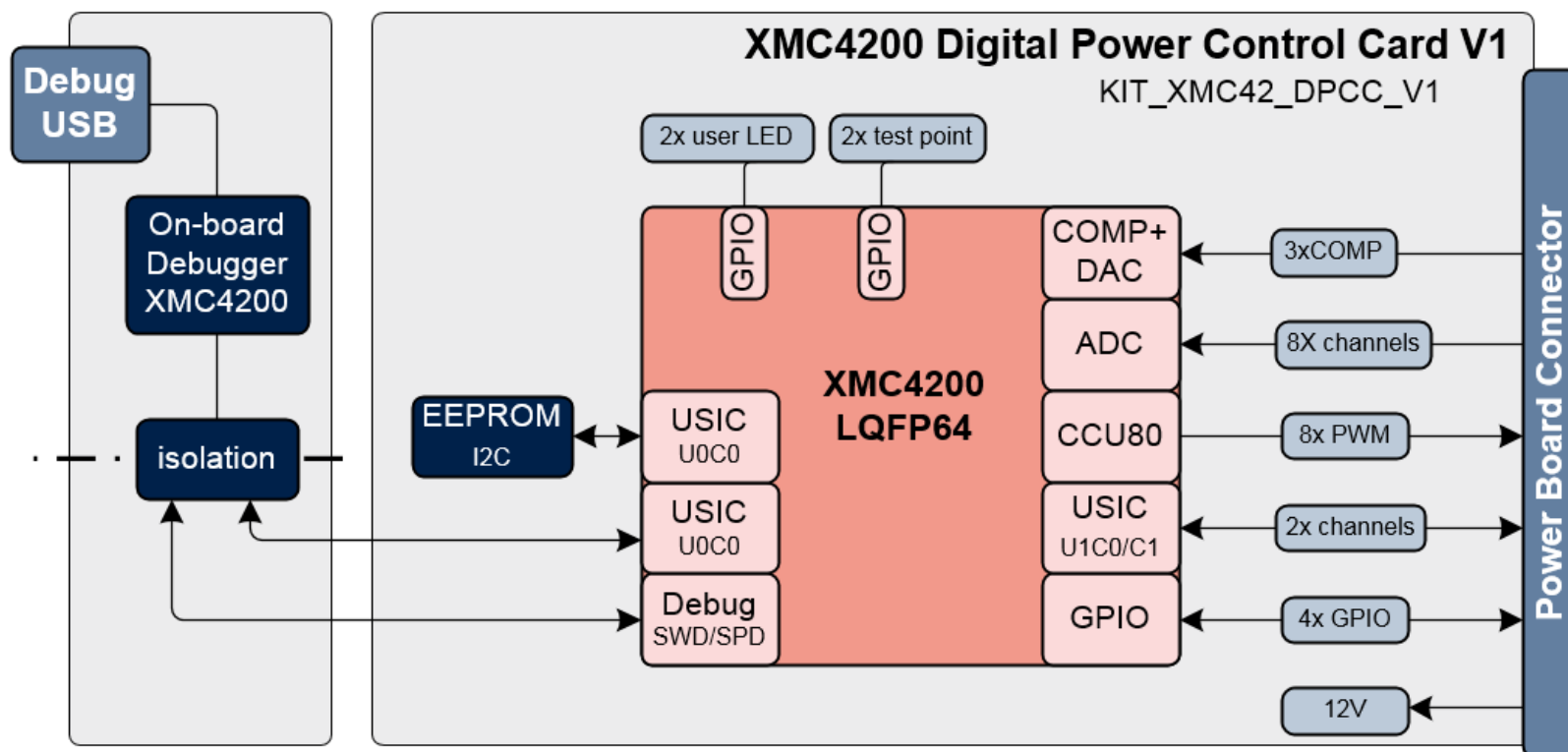
Hardware Overview

› Hardware Block Diagram of XMC1300 Control Card:



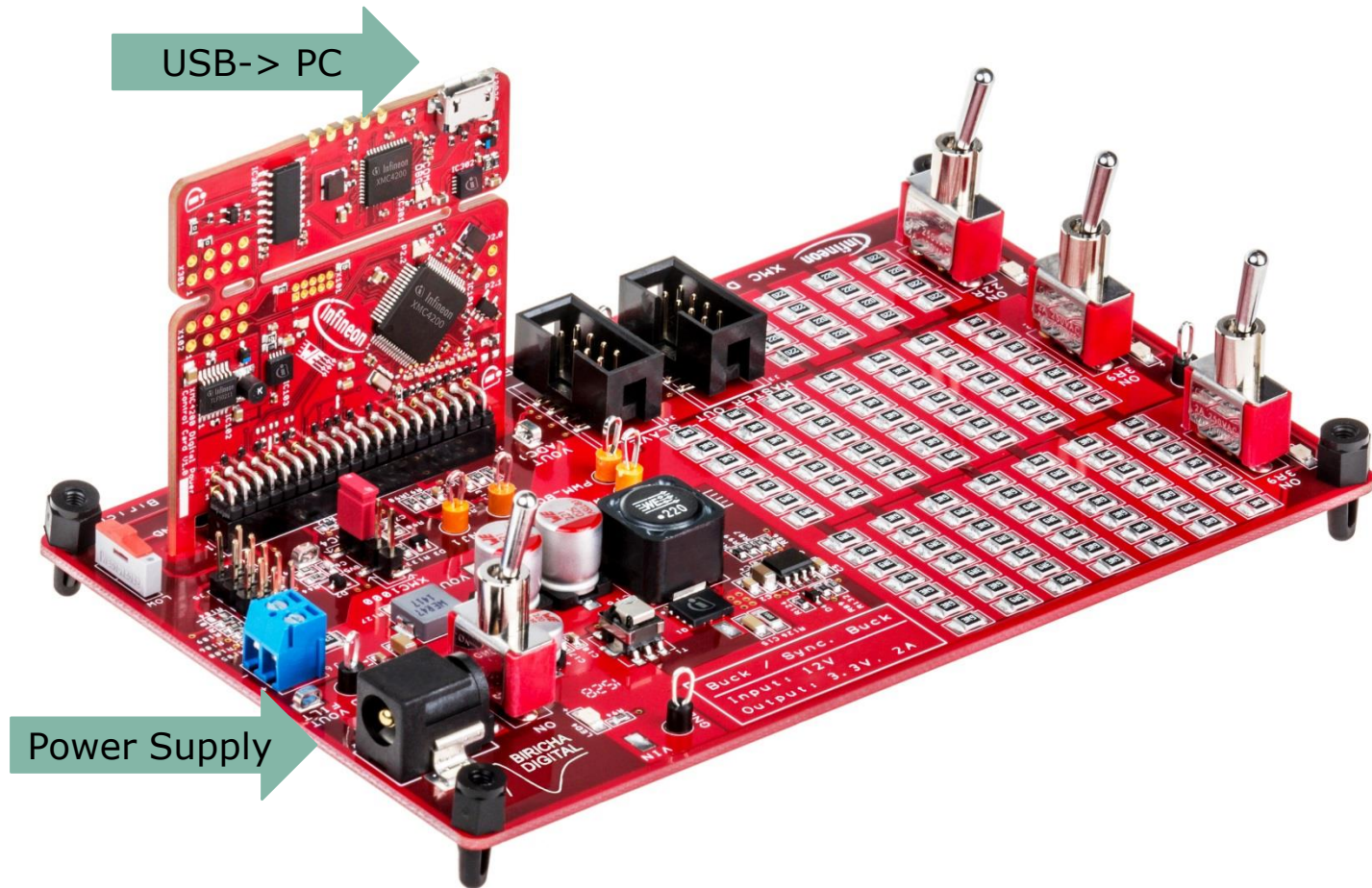
Hardware Overview

› Hardware Block Diagram of XMC4200 Control Card:



Hardware Overview

- › Hardware connection is shown below:



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– Example – XMC1300 Buck Converter in Voltage Control Mode

Tooling Overview – DAVE™ (1/5)

- › Download DAVE™ installer package from:
<http://www.infineon.com/dave>
- › Download and unzip the installer package

DAVE™

Free Eclipse based integrated development environment (IDE) including GNU C-compiler, debugger, comprehensive code repository, hardware resource management, and code generation plug-in.
A complete download package is provided, including IDE, XMC™ Lib, DAVE™ APPs, EXAMPLES, and DAVE™ SDK.
[DAVE™ Release Note](#)

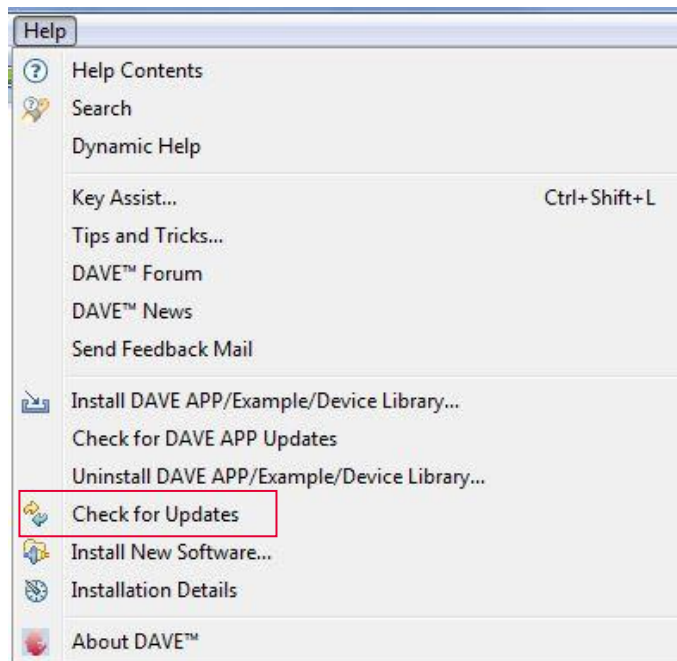


- › Run *_Setup.exe file to install DAVE and Segger J-Link drivers
- › After Installation, DAVE™ v4 can be started from desktop.

Tooling Overview – DAVE™ (2/5)

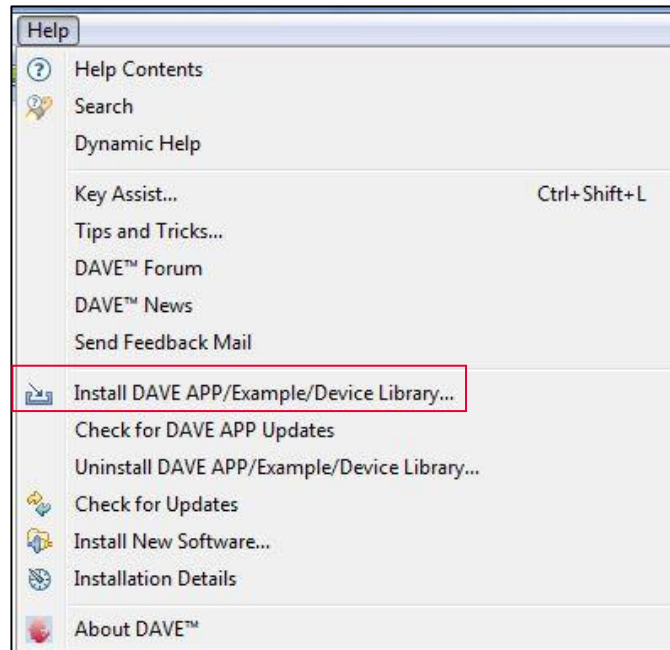
› Check for DAVE updates

Help → Check for Updates



› Install DAVE APPs and Device Descriptions

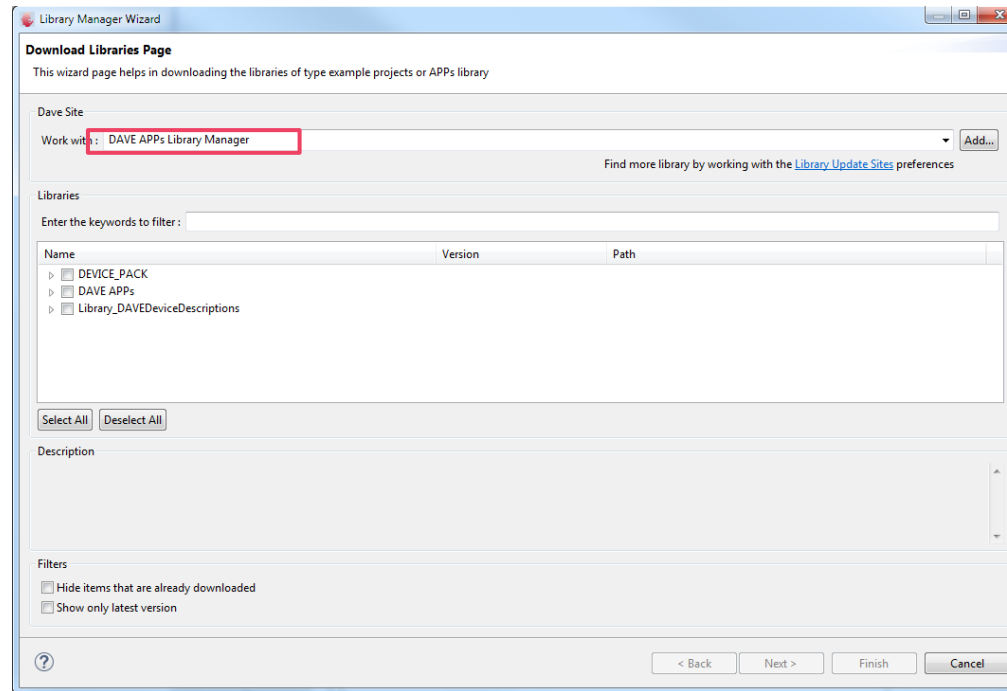
Help → Install DAVE APP/Example/Device Library



› Note: You may skip the above step if you are not using DAVE APPs

Tooling Overview – DAVE™ (4/5)

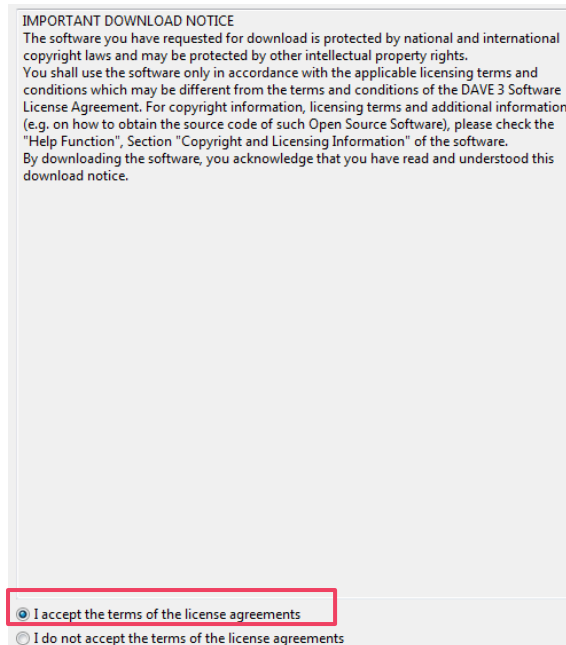
- › Select DAVE Apps Library Manager in the drop-down menu



- › Select all and click Next

- › ☒ DEVICE_PACK
- › ☒ DAVE APPs
- › ☒ Library_DAVEDeviceDescriptions

- › Accept terms of the license agreements and click Finish



- › DEVICE_PACK, DAVE APPs and DAVE device descriptions are installed

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– Example – XMC1300 Buck Converter in Voltage Control Mode

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (1/16)



- › For this project, we will use
 - Hardware: XMC Digital Power Explorer Power Board + XMC4200 Digital Power Control Card
 - Tools: DAVE™ version 4

- › Next, we will show you
 1. How to create project in DAVE™.
 2. Select and configure the required DAVE APPs to control the switching of the buck converter.

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (2/16)

1. Open DAVE™



2. In DAVE™ workspace, create DAVE Code Engine (CE) project

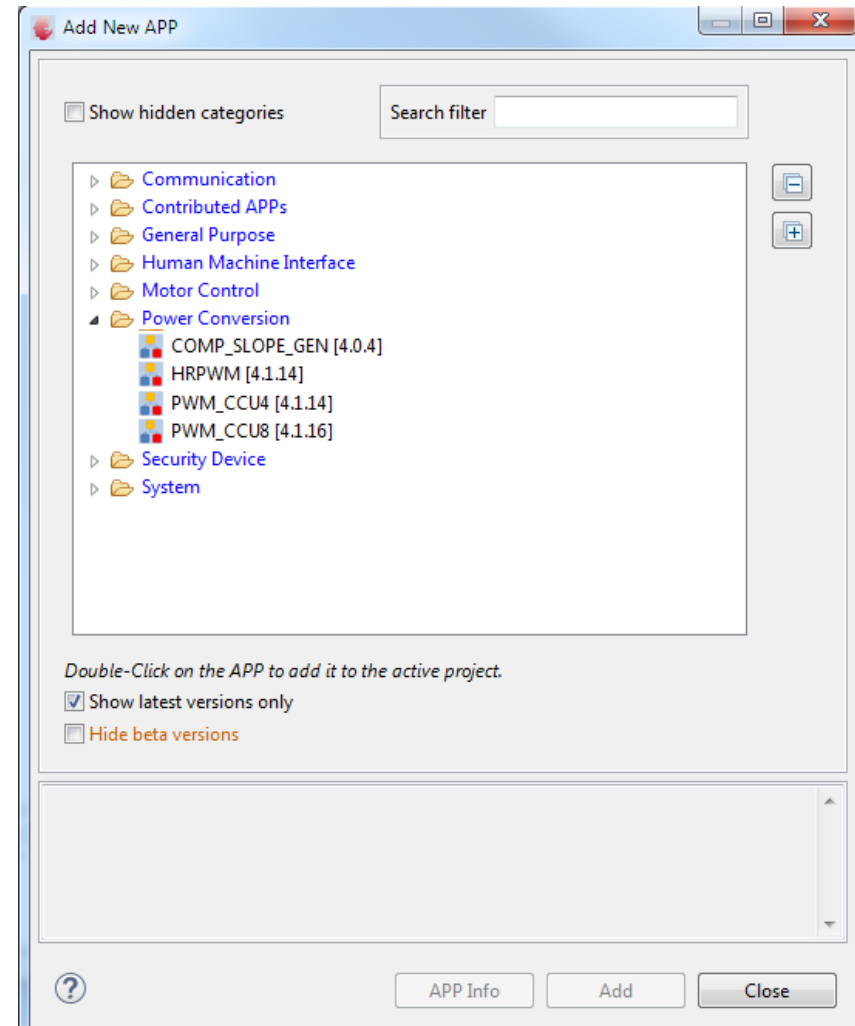
- Go to File -> New -> DAVE Project 
- Select DAVE CE Project
- Click Next
- Select the device accordingly
 - For XMC4200 Digital Power Control Card, select 'XMC4200-F64x256'

3. To change Compiler optimization level

- Click  to change active project setting.
- Select C/C++ Build -> Settings.
- Under Tool Settings, select ARM-GCC C Compiler -> Optimization.
- Set Optimization level to 'Optimize most (-O3)'

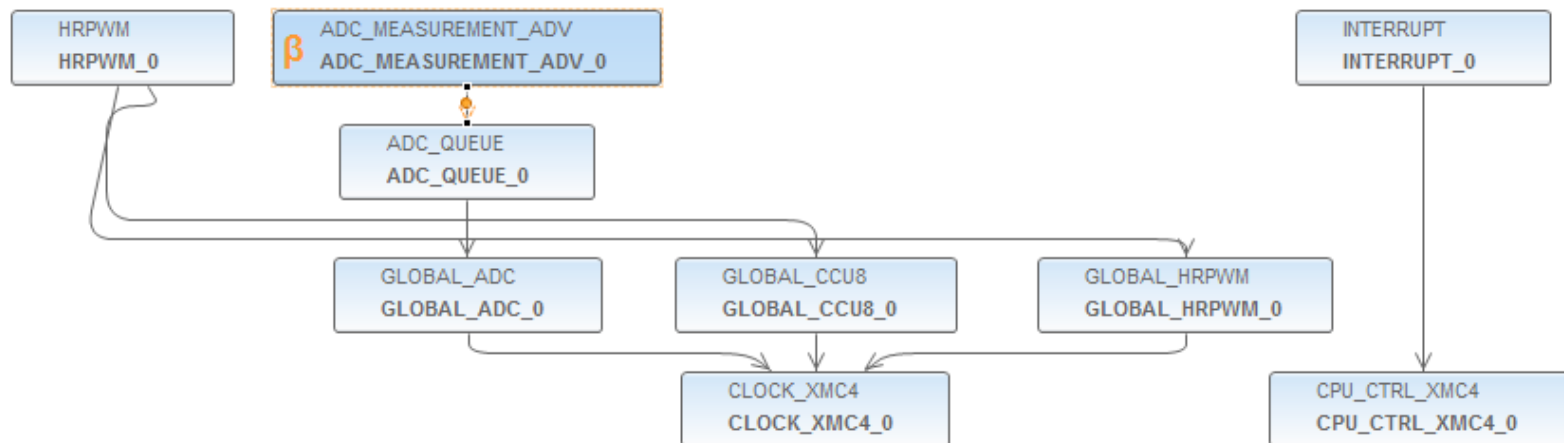
Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (3/16)

4. Add the required APPs to Project:
- Click  in Tool Panel
 - Double-click for including the following APPs:
 - HRPWM
 - ADC_MEASUREMENT_ADV
 - COMP_SLOPE_GEN
 - INTERRUPT



Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (4/16)

- › After including the APPs, the APP Dependency View of your project should look like this:



Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (5/16)

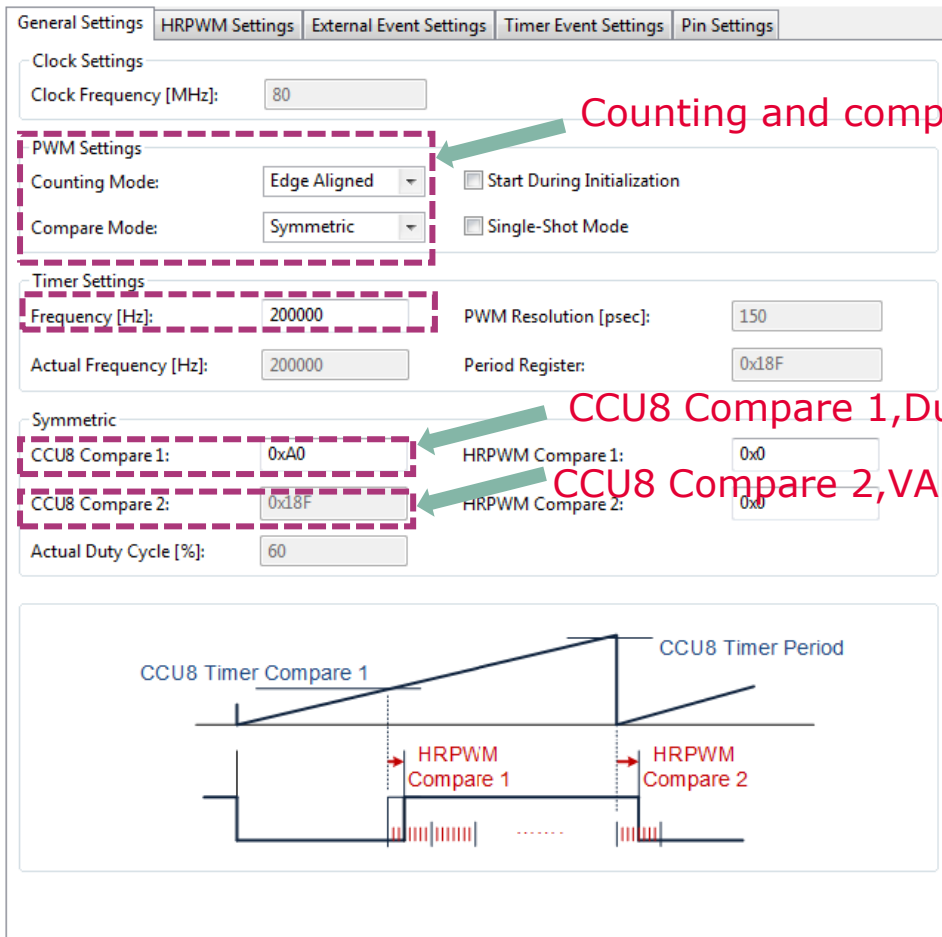
5. Configure HRPWM APP – PWM and VADC trigger signal configuration

PWM Frequency →

Counting and compare mode

CCU8 Compare 1, Duty cycle

CCU8 Compare 2, VADC trigger signal



The screenshot shows the configuration window for the HRPWM APP. The 'HRPWM Settings' tab is selected. The 'PWM Settings' section is highlighted with a red dashed box and labeled 'Counting and compare mode'. It contains the following fields:

- Counting Mode: Edge Aligned
- Compare Mode: Symmetric
- Start During Initialization: ☐
- Single-Shot Mode: ☐

The 'Timer Settings' section is highlighted with a red dashed box and labeled 'PWM Frequency'. It contains the following fields:

- Frequency [Hz]: 200000
- Actual Frequency [Hz]: 200000
- PWM Resolution [psec]: 150
- Period Register: 0x18F

The 'Symmetric' section is highlighted with a red dashed box and labeled 'CCU8 Compare 1, Duty cycle' and 'CCU8 Compare 2, VADC trigger signal'. It contains the following fields:

- CCU8 Compare 1: 0xA0
- CCU8 Compare 2: 0x18F
- HRPWM Compare 1: 0x0
- HRPWM Compare 2: 0x0
- Actual Duty Cycle [%]: 60

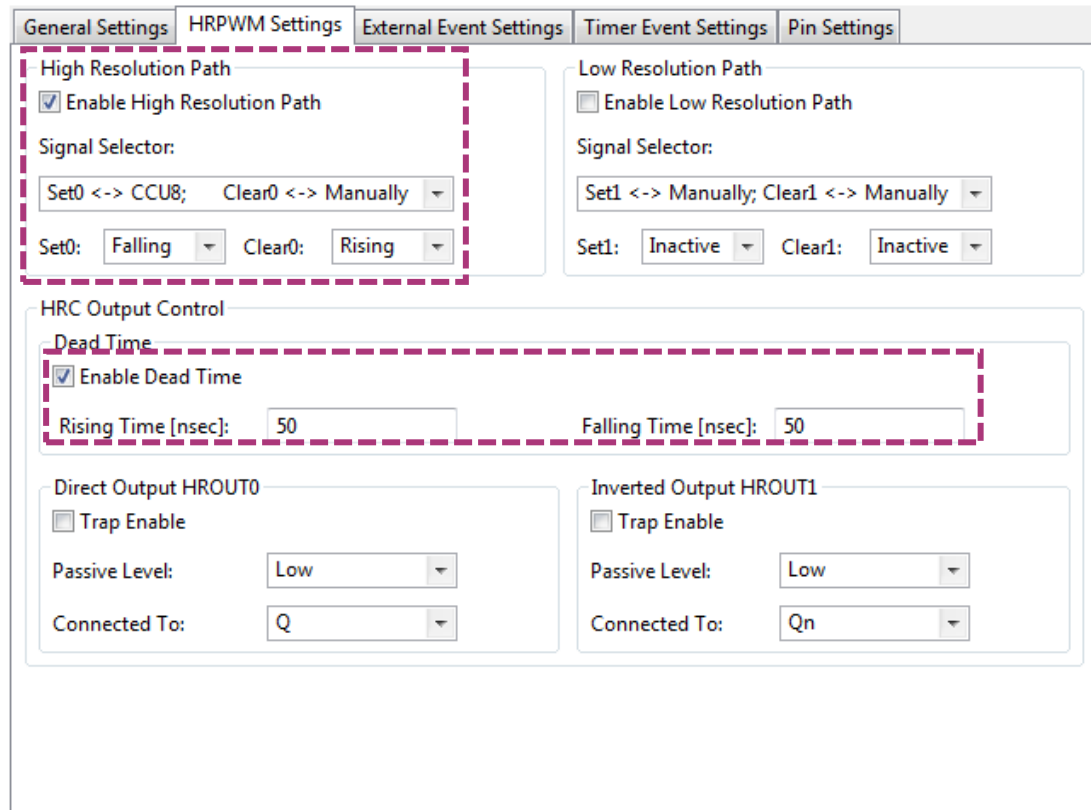
At the bottom, there is a timing diagram showing the CCU8 Timer Period and the HRPWM Compare 1 and Compare 2 signals. The diagram shows a sawtooth wave for the CCU8 Timer Period. The HRPWM Compare 1 signal is a square wave that is high for the duration of the CCU8 Compare 1 value (0xA0) and low for the remainder of the period. The HRPWM Compare 2 signal is a square wave that is high for the duration of the CCU8 Compare 2 value (0x18F) and low for the remainder of the period.

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (6/16)

6. Configure HRPWM APP – PWM and VADC trigger signal configuration

Enabling HR path
Configuring set and clear signals

Enable Dead Time:
Rising and Falling time 50ns



General Settings | **HRPWM Settings** | External Event Settings | Timer Event Settings | Pin Settings

High Resolution Path

☒ Enable High Resolution Path

Signal Selector:

Set0 <-> CCU8; Clear0 <-> Manually

Set0: Falling Clear0: Rising

Low Resolution Path

☐ Enable Low Resolution Path

Signal Selector:

Set1 <-> Manually; Clear1 <-> Manually

Set1: Inactive Clear1: Inactive

HRC Output Control

Dead Time

☒ Enable Dead Time

Rising Time [nsec]: 50 Falling Time [nsec]: 50

Direct Output HROUT0

☐ Trap Enable

Passive Level: Low

Connected To: Q

Inverted Output HROUT1

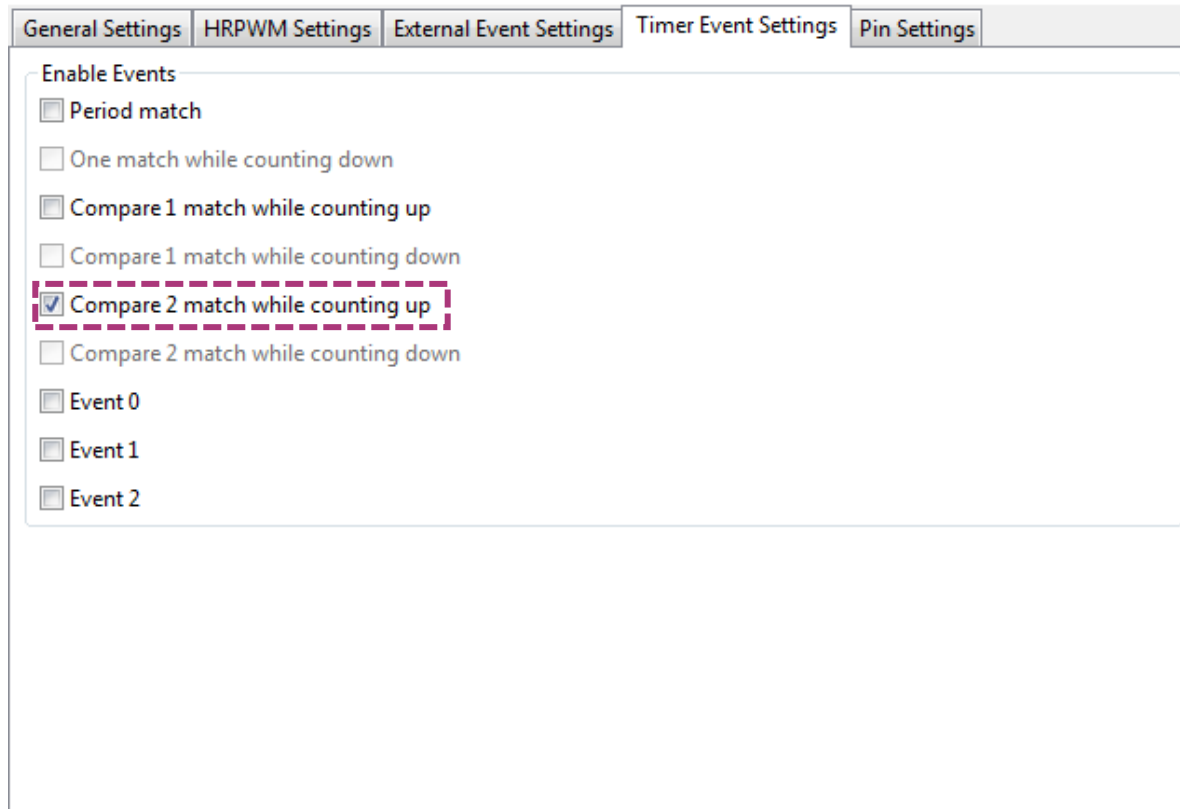
☐ Trap Enable

Passive Level: Low

Connected To: Qn

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (7/16)

7. Configure HRPWM APP – Enable Compare Match 2 while counting up (for VADC conversions triggering)



The screenshot shows the 'Timer Event Settings' tab of the HRPWM Settings dialog. The 'Enable Events' section is expanded, and the 'Compare 2 match while counting up' checkbox is checked and highlighted with a red dashed box. The other options in the 'Enable Events' section are unchecked.

Setting	Value
Period match	☐
One match while counting down	☐
Compare 1 match while counting up	☐
Compare 1 match while counting down	☐
Compare 2 match while counting up	☒
Compare 2 match while counting down	☐
Event 0	☐
Event 1	☐
Event 2	☐

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (8/16)



8. Configure INTERRUPT APP – Interrupt Settings, Enable the interrupt at initialization and choose the name for the voltage control loop callback.

Interrupt Settings

☒ Enable interrupt at initialization

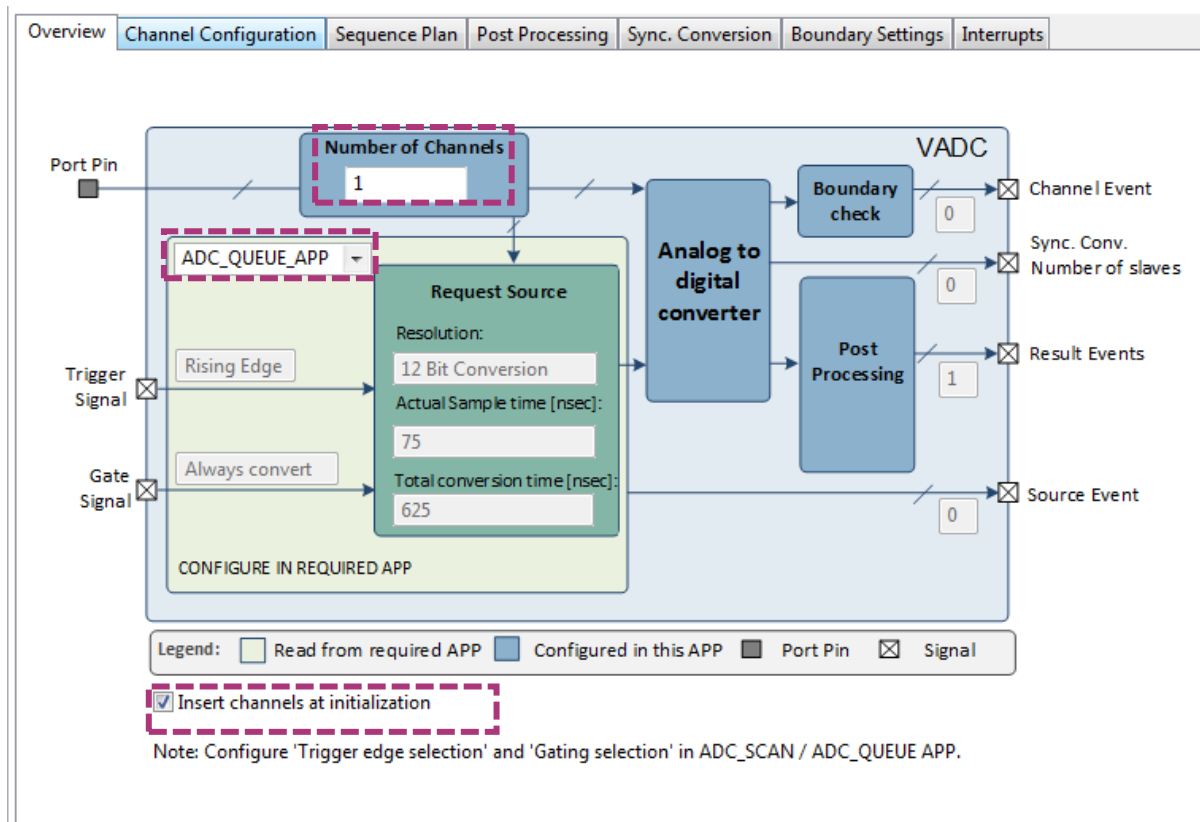
Interrupt Priority

Preemption priority Subpriority

Interrupt handler:

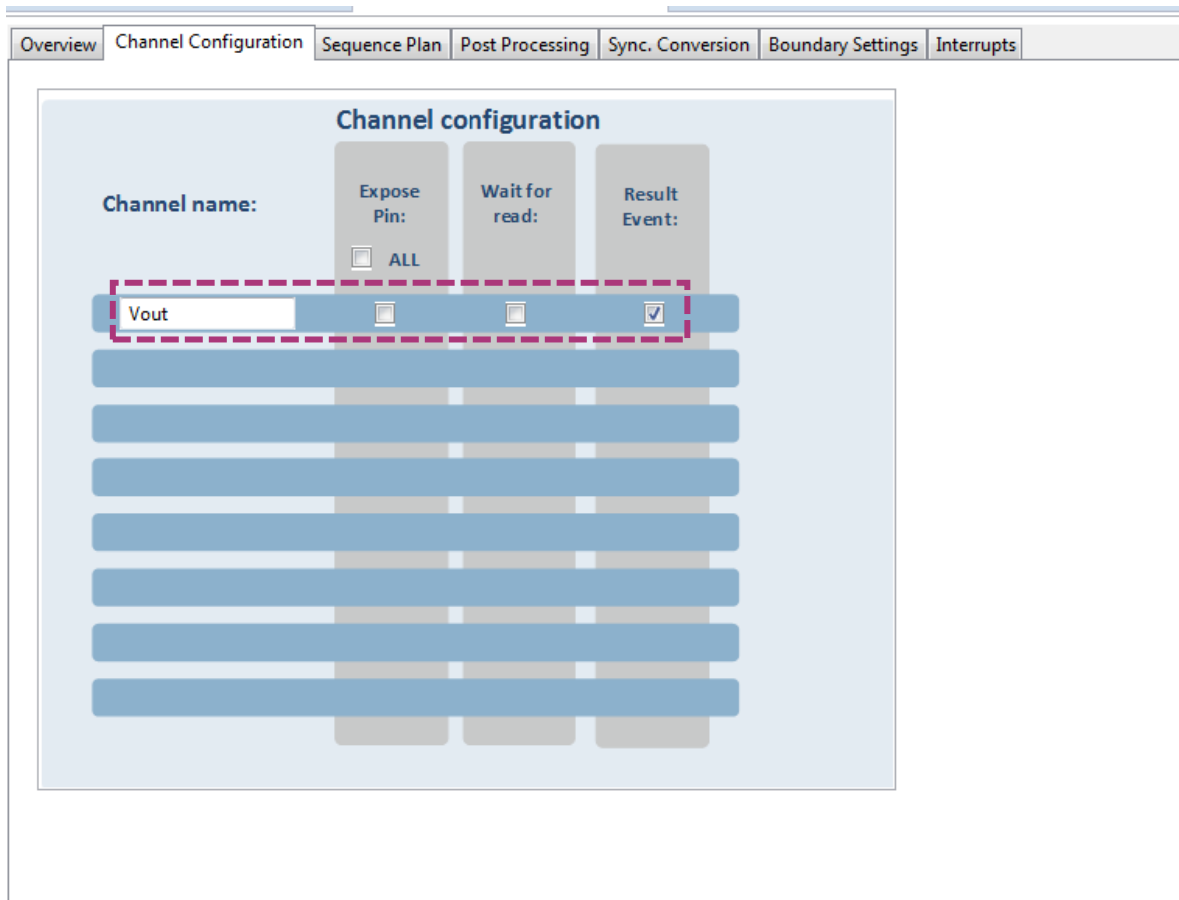
Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (9/16)

9. Configure ADC_MEASUREMENT_ADV APP – Choose 1 channel, select the queue request source and insert the channel at initialization



Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (10/16)

10. Configure ADC_MEASUREMENT_ADV APP – Give a name to the measured channel (Vout) and enable the “Result Event”



Channel name:	Expose Pin:	Wait for read:	Result Event:
Vout	☐	☐	☒
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐

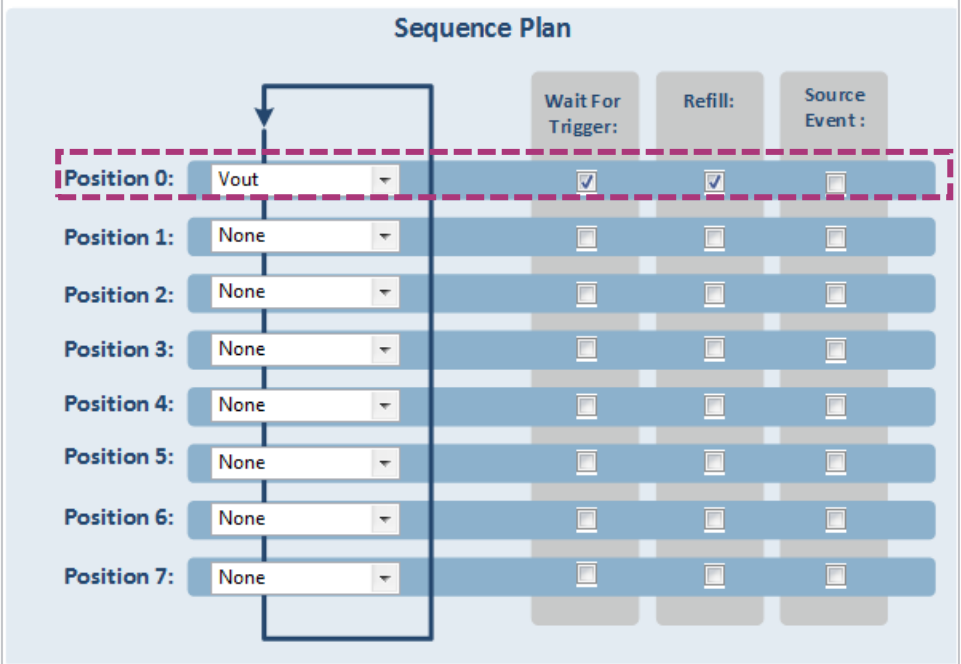
Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (11/16)

11. Configure ADC_MEASUREMENT_ADV APP – Configure the sequence for the conversion and select “Wait For Trigger” and “Refill”.

Overview Channel Configuration Sequence Plan Post Processing Sync. Conversion Boundary Settings Interrupts

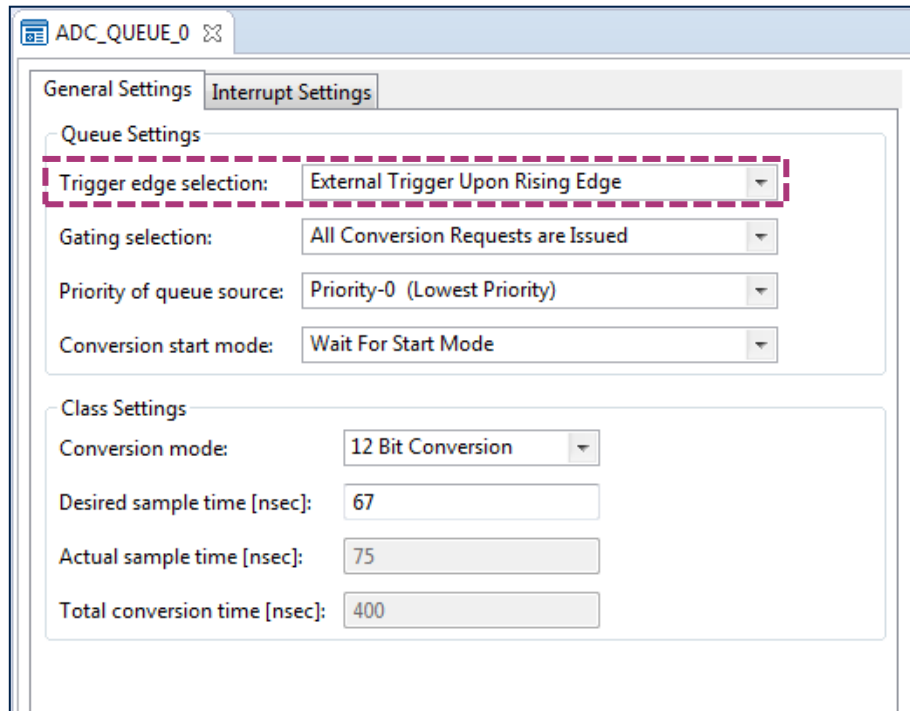
Sequence Plan

		Wait For Trigger:	Refill:	Source Event:
Position 0:	Vout	☒	☒	☐
Position 1:	None	☐	☐	☐
Position 2:	None	☐	☐	☐
Position 3:	None	☐	☐	☐
Position 4:	None	☐	☐	☐
Position 5:	None	☐	☐	☐
Position 6:	None	☐	☐	☐
Position 7:	None	☐	☐	☐



Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (12/16)

12. Configure Trigger edge selection in the ADC_QUEUE APP



The screenshot shows the configuration window for ADC_QUEUE_0. It has two tabs: 'General Settings' and 'Interrupt Settings'. The 'Queue Settings' section is highlighted with a red dashed box. It contains four dropdown menus: 'Trigger edge selection' (set to 'External Trigger Upon Rising Edge'), 'Gating selection' (set to 'All Conversion Requests are Issued'), 'Priority of queue source' (set to 'Priority-0 (Lowest Priority)'), and 'Conversion start mode' (set to 'Wait For Start Mode'). Below this is the 'Class Settings' section, which includes a dropdown for 'Conversion mode' (set to '12 Bit Conversion') and three input fields for 'Desired sample time [nsec]' (67), 'Actual sample time [nsec]' (75), and 'Total conversion time [nsec]' (400).

Section	Parameter	Value
Queue Settings	Trigger edge selection:	External Trigger Upon Rising Edge
	Gating selection:	All Conversion Requests are Issued
	Priority of queue source:	Priority-0 (Lowest Priority)
	Conversion start mode:	Wait For Start Mode
Class Settings	Conversion mode:	12 Bit Conversion
	Desired sample time [nsec]:	67
	Actual sample time [nsec]:	75
	Total conversion time [nsec]:	400

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (13/16)

13. Click  to open Manual Pin Allocator view
 - Allocate:
 - Vout pin to P14.6
 - HRPWM OUT0 to P0.5
 - HRPWM OUT1 to P0.2
14. Connect hardware signal by doing right-click in the APP and then select  HW Signal Connections
 - In HRPWM connect:
 - event_ch2_cmp_match → ADC_QUEUE → trigger_input
 - In ADC_MEASUREMENT_ADV connect:
 - Event_res_Vout → INTERRUPT → sr_irq

Getting Started – Example – XMC4200 Buck Converter in Voltage Control Mode (14/16)



15. Make sure you have the source code for the voltage control loop implementation. The following files can be copied from the provide example project(go to section [6. References](#) for more information):
 - xmc_3p3z_filter_float.h
 - main.c

16. Prepare board set up:
 - Connect XMC4200 Digital Power Control Card into XMC Digital Power Explorer and supply power with included power adapter to it.
 - Place the jumper is in the "XMC4000" position.
 - Make sure power on switch is in the "on" position.

Getting Started – XMC4200 Example Buck Converter in Voltage Control Mode (15/16)

17. Click  to generate code

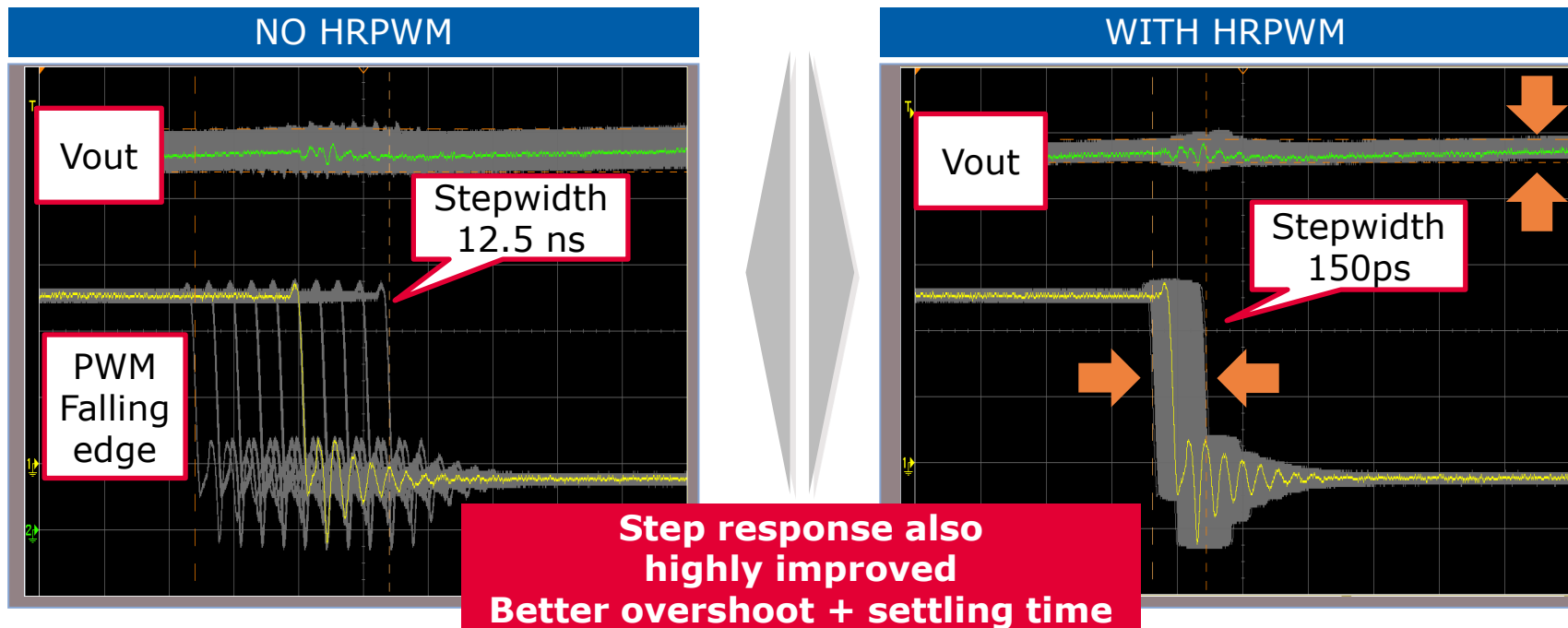
18. Click  to build project

19. Download code and debug

– Click 

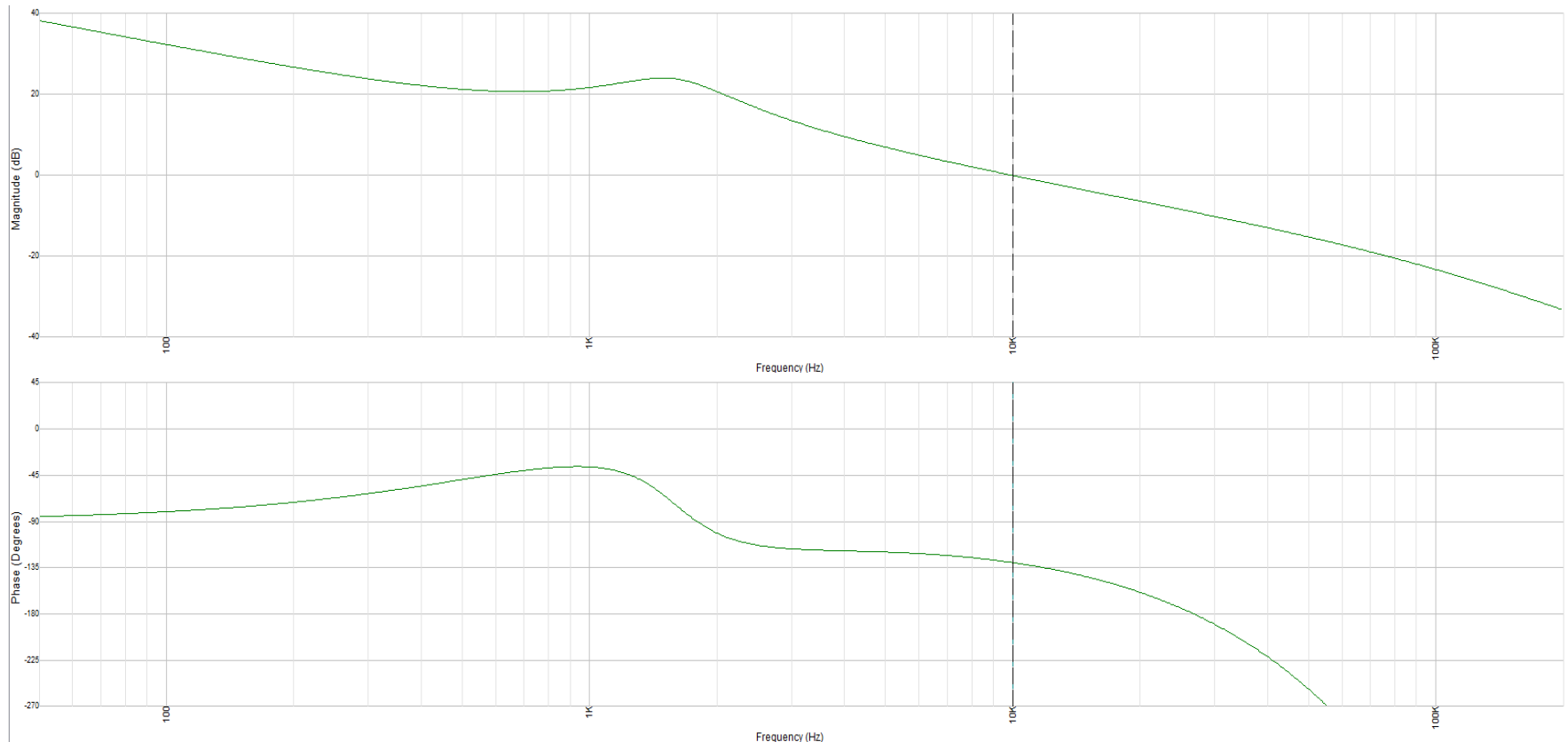
– Click  to run code

- › With finer adjustment of the duty cycle, the output voltage is regulated more accurately and this reduce the ripple significantly



Getting Started – XMC4200 Example Buck Converter in Voltage Control Mode (16/16)

- Expected Frequency Response of the control loop: crossover frequency 10kHz, phase margin 50°, gain margin 10dB



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– Example – XMC4200 Buck Converter in Voltage Control Mode

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– Example – XMC1300 Buck Converter in Voltage Control Mode

Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (1/16)



- › For this project, we will use
 - Hardware: XMC Digital Power Explorer Power Board + XMC1300 Digital Power Control Card
 - Tools: DAVE™ version 4

- › Next, we will show you
 1. How to create project in DAVE™.
 2. Configure the required DAVE APPs to control the switching of the buck converter.

Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (2/16)

1. Open DAVE™



2. In DAVE™ workspace, create DAVE Code Engine (CE) project

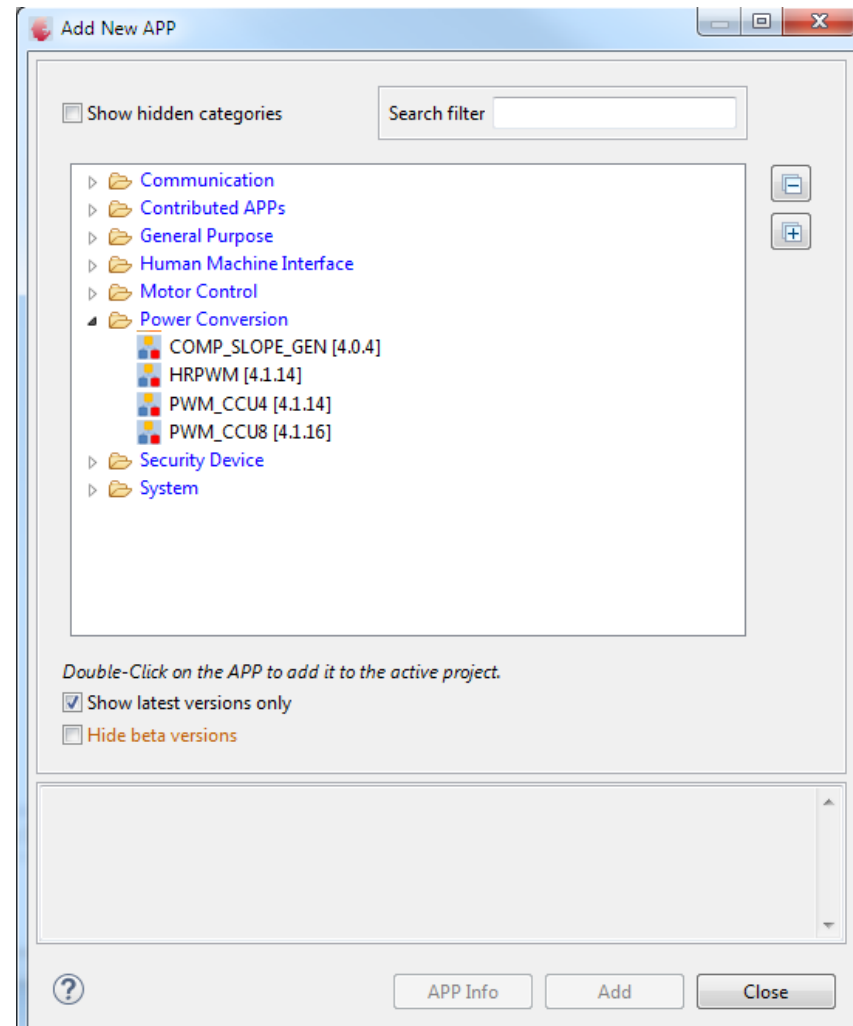
- Go to File -> New -> DAVE Project 
- Select DAVE CE Project
- Click Next
- Select the device accordingly
 - For XMC1300 Digital Power Control Card, select 'XMC1302-T038x200'

3. To change Compiler optimization level

- Click  to change active project setting.
- Select C/C++ Build -> Settings.
- Under Tool Settings, select ARM-GCC C Compiler -> Optimization.
- Set Optimization level to 'Optimize most (-O3)'

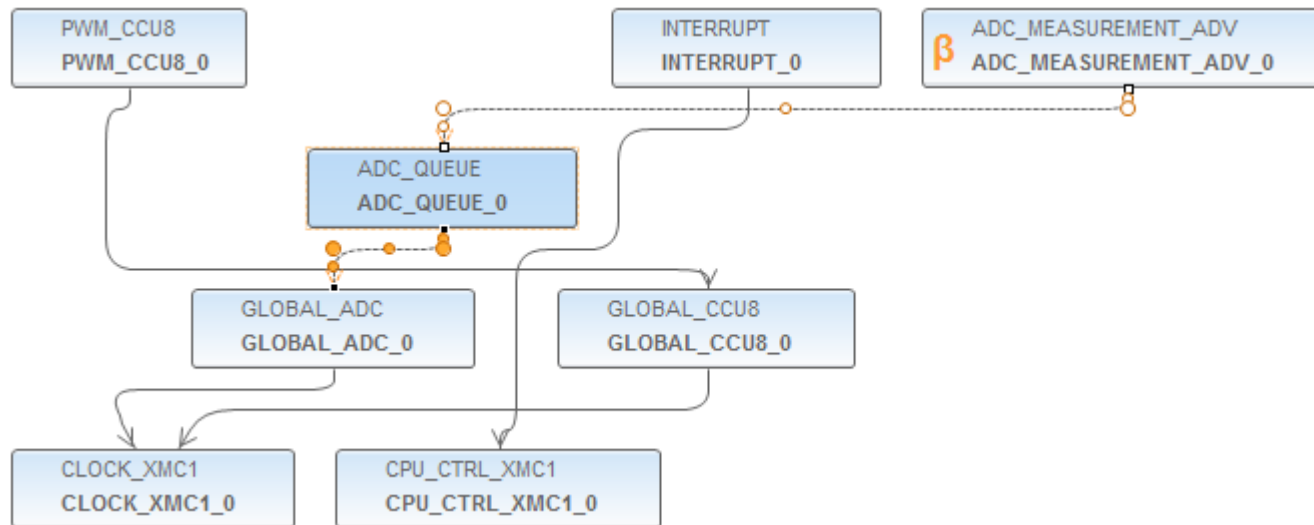
Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (3/16)

4. Add the required APPs to Project:
- Click  in Tool Panel
 - Double-click for including the following APPs:
 - PWM_CCU8
 - ADC_MEASUREMENT_ADV
 - INTERRUPT



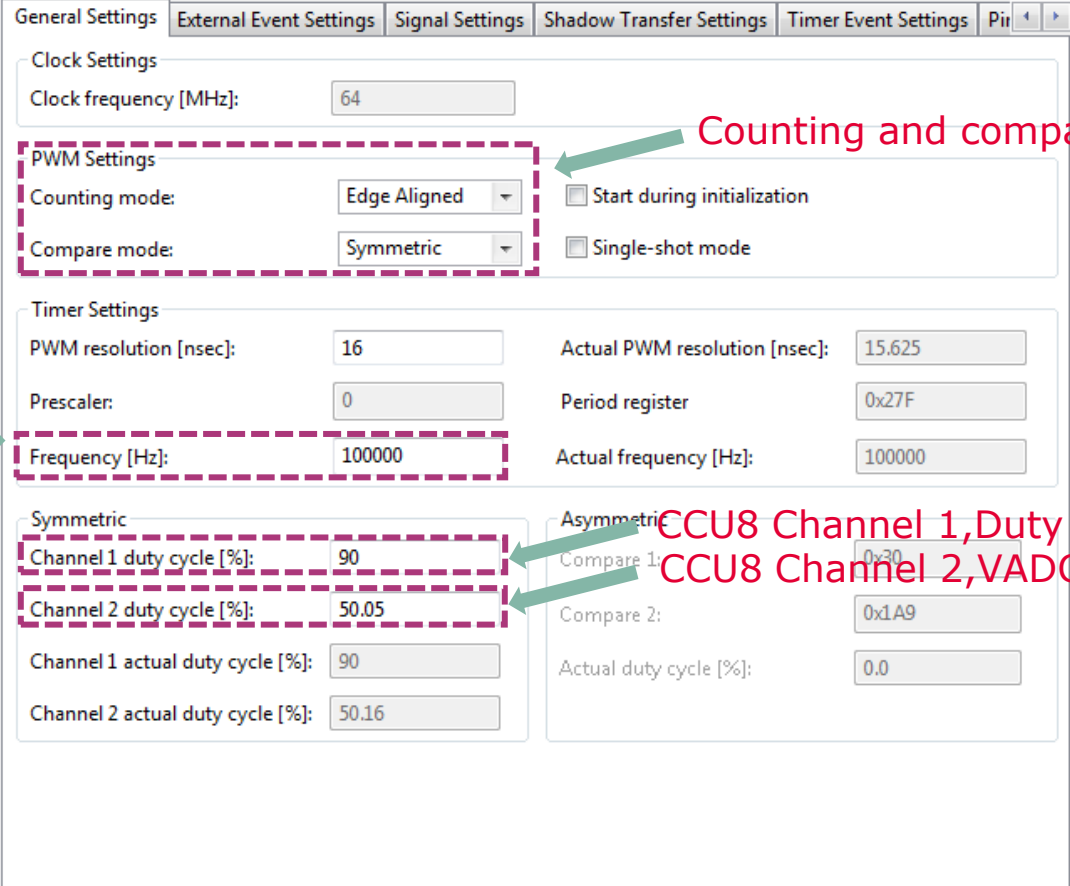
Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (4/16)

- › After including the APPs, the APP Dependency View of your project should look like this:



Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (5/16)

5. Configure PWM_CCU8 APP – PWM and VADC trigger signal configuration



The screenshot displays the configuration interface for the PWM_CCU8 APP. The 'General Settings' tab is active, showing various configuration parameters. Key settings are highlighted with red dashed boxes and arrows:

- PWM Settings:** Counting mode is set to 'Edge Aligned' and Compare mode is set to 'Symmetric'. A red arrow points to this section with the label 'Counting and compare mode'.
- Timer Settings:** The Frequency [Hz] is set to 100000. A red arrow points to this field with the label 'PWM Frequency'.
- Symmetric Mode:** Channel 1 duty cycle [%] is 90 and Channel 2 duty cycle [%] is 50.05. A red arrow points to these fields with the label 'CCU8 Channel 1, Duty cycle'.
- Asymmetric Mode:** Compare 1 is 0x30 and Compare 2 is 0x1A9. A red arrow points to these fields with the label 'CCU8 Channel 2, VADC trigger signal'.

Other visible settings include: Clock frequency [MHz] at 64, PWM resolution [nsec] at 16, Prescaler at 0, Actual PWM resolution [nsec] at 15.625, Period register at 0x27F, Actual frequency [Hz] at 100000, Channel 1 actual duty cycle [%] at 90, Channel 2 actual duty cycle [%] at 50.16, and Actual duty cycle [%] at 0.0.

Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (6/16)

6. Configure PWM_CCU8 APP – PWM and VADC trigger signal configuration

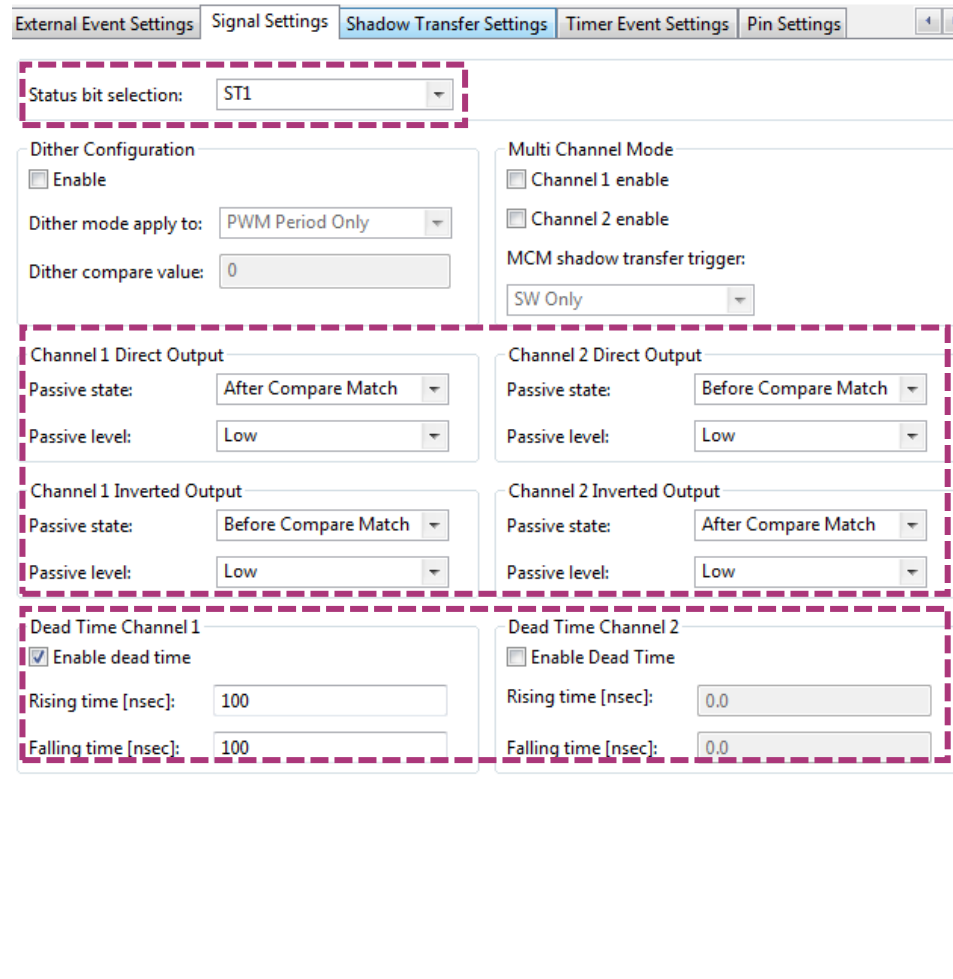
Status bit selection



Channel 1 and Channel 2 Outputs configuration



Dead time selection



External Event Settings | Signal Settings | **Shadow Transfer Settings** | Timer Event Settings | Pin Settings

Status bit selection: **ST1**

Dither Configuration
☒ Enable
Dither mode apply to: **PWM Period Only**
Dither compare value: **0**

Multi Channel Mode
☒ Channel 1 enable
☒ Channel 2 enable
MCM shadow transfer trigger: **SW Only**

Channel 1 Direct Output
Passive state: **After Compare Match**
Passive level: **Low**

Channel 2 Direct Output
Passive state: **Before Compare Match**
Passive level: **Low**

Channel 1 Inverted Output
Passive state: **Before Compare Match**
Passive level: **Low**

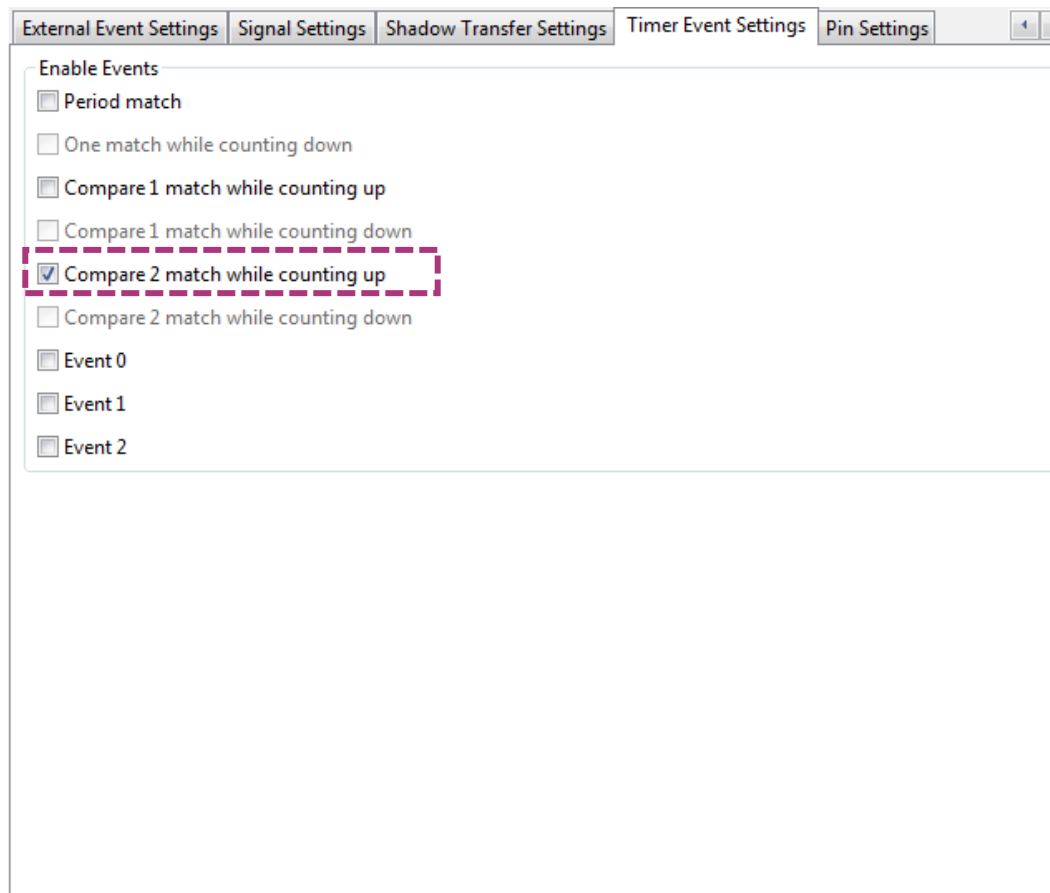
Channel 2 Inverted Output
Passive state: **After Compare Match**
Passive level: **Low**

Dead Time Channel 1
☒ Enable dead time
Rising time [nsec]: **100**
Falling time [nsec]: **100**

Dead Time Channel 2
☐ Enable Dead Time
Rising time [nsec]: **0.0**
Falling time [nsec]: **0.0**

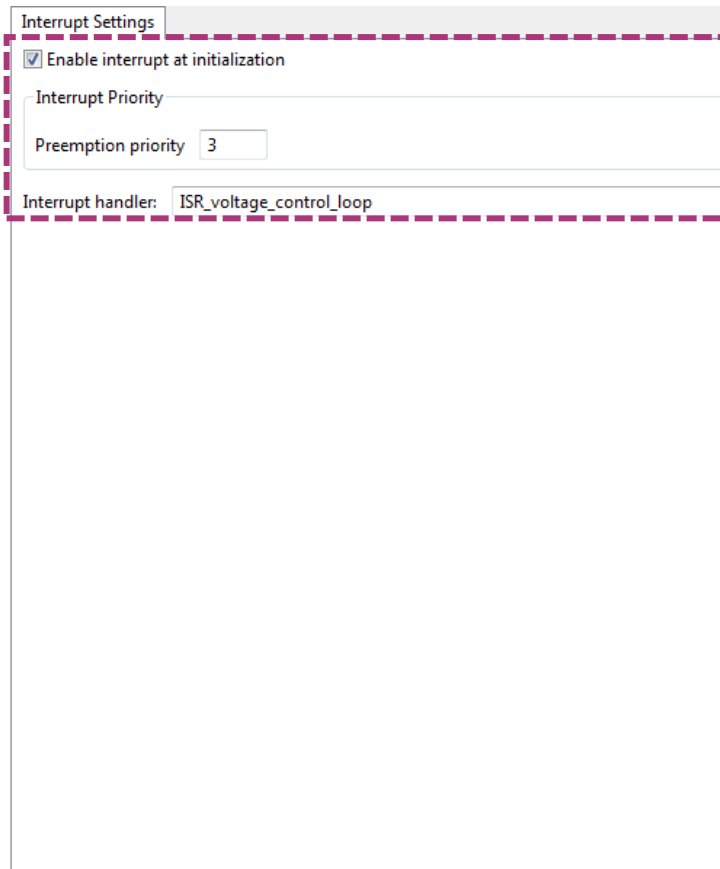
Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (7/16)

7. Configure PWM_CCU8 APP – Enable Compare Match 2 while counting up (for VADC conversions triggering)



Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (8/16)

8. Configure INTERRUPT APP – Interrupt Settings, Enable the interrupt at initialization and choose the name for the voltage control loop callback.



Interrupt Settings

☒ Enable interrupt at initialization

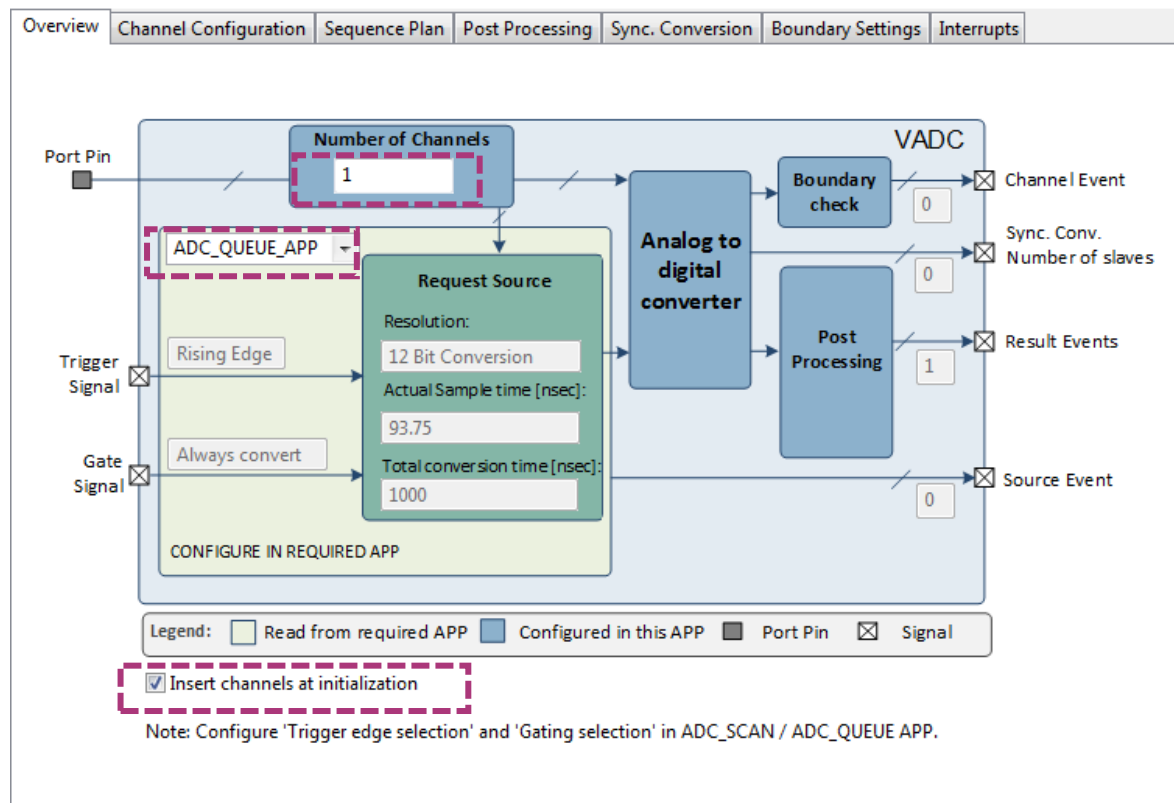
Interrupt Priority

Preemption priority 3

Interrupt handler: ISR_voltage_control_loop

Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (9/16)

9. Configure ADC_MEASUREMENT_ADV APP – Choose 1 channel, select the queue request source and insert the channel at initialization



Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (10/16)

10. Configure ADC_MEASUREMENT_ADV APP – Give a name to the measured channel (Vout) and enable the “Result Event”

Overview Channel Configuration Sequence Plan Post Processing Sync. Conversion Boundary Settings Interrupts

Channel configuration

Channel name:	Expose Pin:	Wait for read:	Result Event:	Gain:
Vout	☐ ALL	☐	☒	1:1

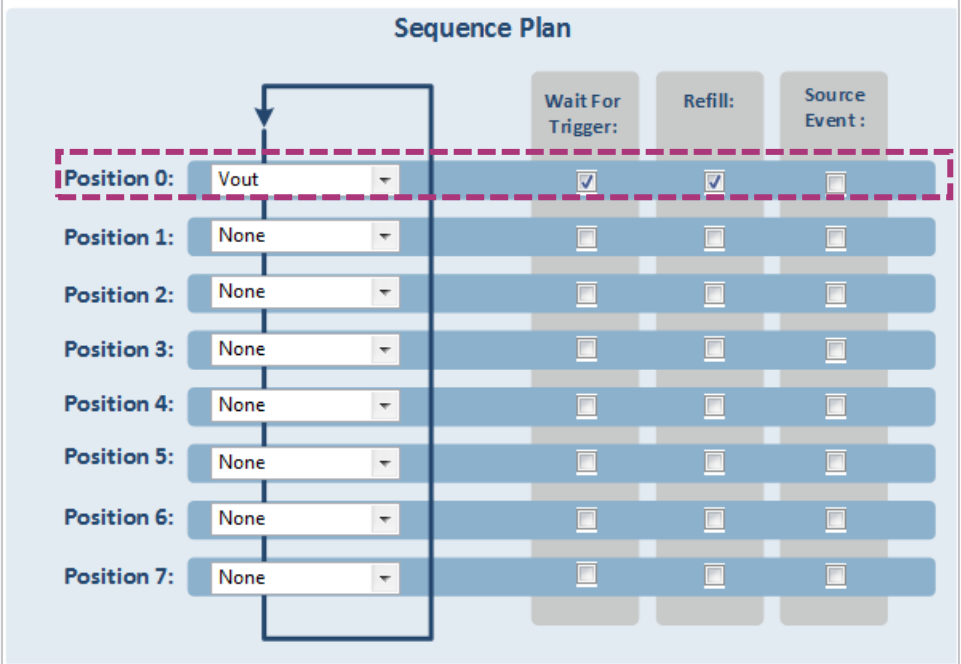
Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (11/16)

11. Configure ADC_MEASUREMENT_ADV APP – Configure the sequence for the conversion and select “Wait For Trigger” and “Refill”.

Overview Channel Configuration Sequence Plan Post Processing Sync. Conversion Boundary Settings Interrupts

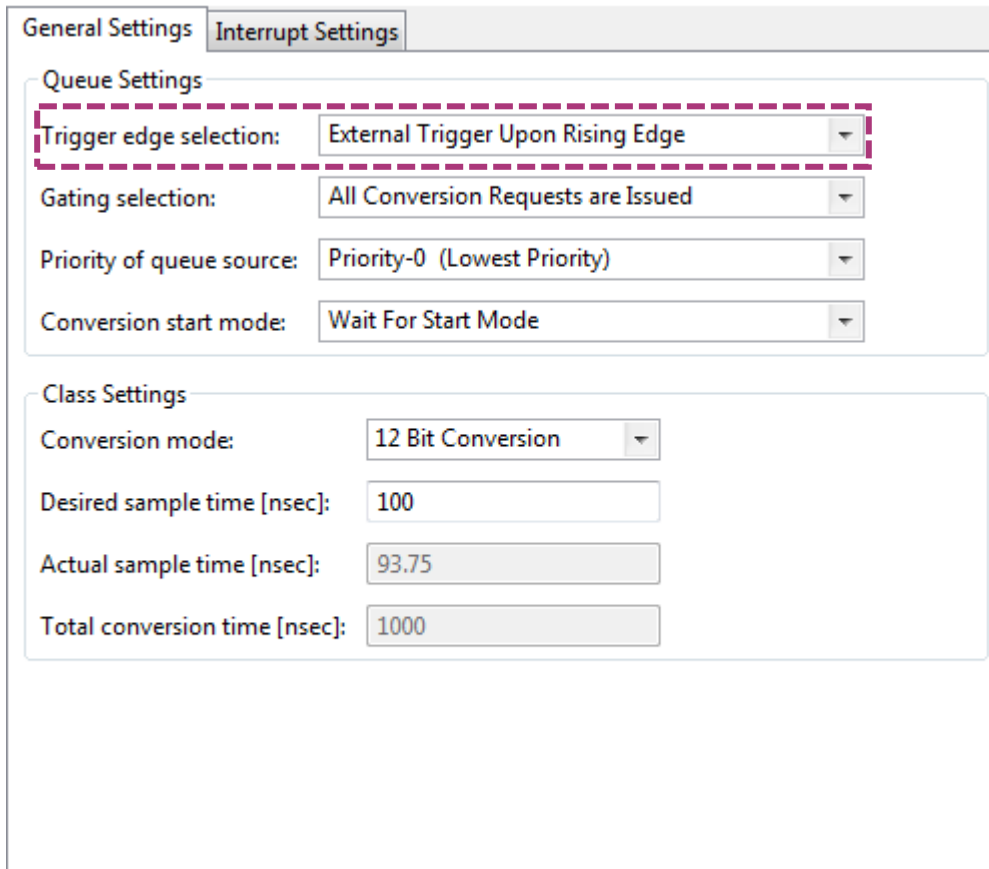
Sequence Plan

		Wait For Trigger:	Refill:	Source Event:
Position 0:	Vout	☒	☒	☐
Position 1:	None	☐	☐	☐
Position 2:	None	☐	☐	☐
Position 3:	None	☐	☐	☐
Position 4:	None	☐	☐	☐
Position 5:	None	☐	☐	☐
Position 6:	None	☐	☐	☐
Position 7:	None	☐	☐	☐



Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (12/16)

12. Configure Trigger edge selection in the ADC_QUEUE APP



The screenshot displays the configuration interface for the ADC_QUEUE APP, divided into two tabs: "General Settings" and "Interrupt Settings". The "Interrupt Settings" tab is active. Within this tab, there are two main sections: "Queue Settings" and "Class Settings".

Queue Settings: This section contains four dropdown menus. The first, "Trigger edge selection:", is highlighted with a dashed red border and is set to "External Trigger Upon Rising Edge". The other settings are "Gating selection:" (set to "All Conversion Requests are Issued"), "Priority of queue source:" (set to "Priority-0 (Lowest Priority)"), and "Conversion start mode:" (set to "Wait For Start Mode").

Class Settings: This section contains four input fields. "Conversion mode:" is a dropdown set to "12 Bit Conversion". "Desired sample time [nsec]:" is a text box containing "100". "Actual sample time [nsec]:" is a text box containing "93.75". "Total conversion time [nsec]:" is a text box containing "1000".

Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (13/16)

13. Click  to open Manual Pin Allocator view

- Allocate:
 - Vout pin to P2.3
 - PWM_CCU8 CH1 Direct Out to P0.0
 - PWM_CCU8 CH1 Invert Out to P0.5

14. Connect hardware signal by doing right-click in the APP and then select  HW Signal Connections

- In HRPWM connect:
 - event_ch2_cmp_match → ADC_QUEUE → trigger_input
- In ADC_MEASUREMENT_ADV connect:
 - Event_res_Vout → INTERRUPT → sr_irq

Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (14/16)



15. Make sure you have the source code for the voltage control loop implementation. The following files can be copied from the provide example project(go to section [6. References](#) for more information):
 - xmc_3p3z_filter_fixed.h
 - main.c

16. Prepare board set up:
 - Connect XMC1300 Digital Power Control Card into XMC Digital Power Explorer and supply power with included power adapter to it.
 - Place the jumper is in the "XMC4000" position(Voltage Control Mode position).
 - Make sure power on switch is in the "on" position.

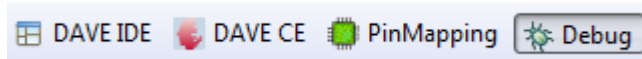
Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (15/16)

17. Click  to generate code

18. Click  to build project

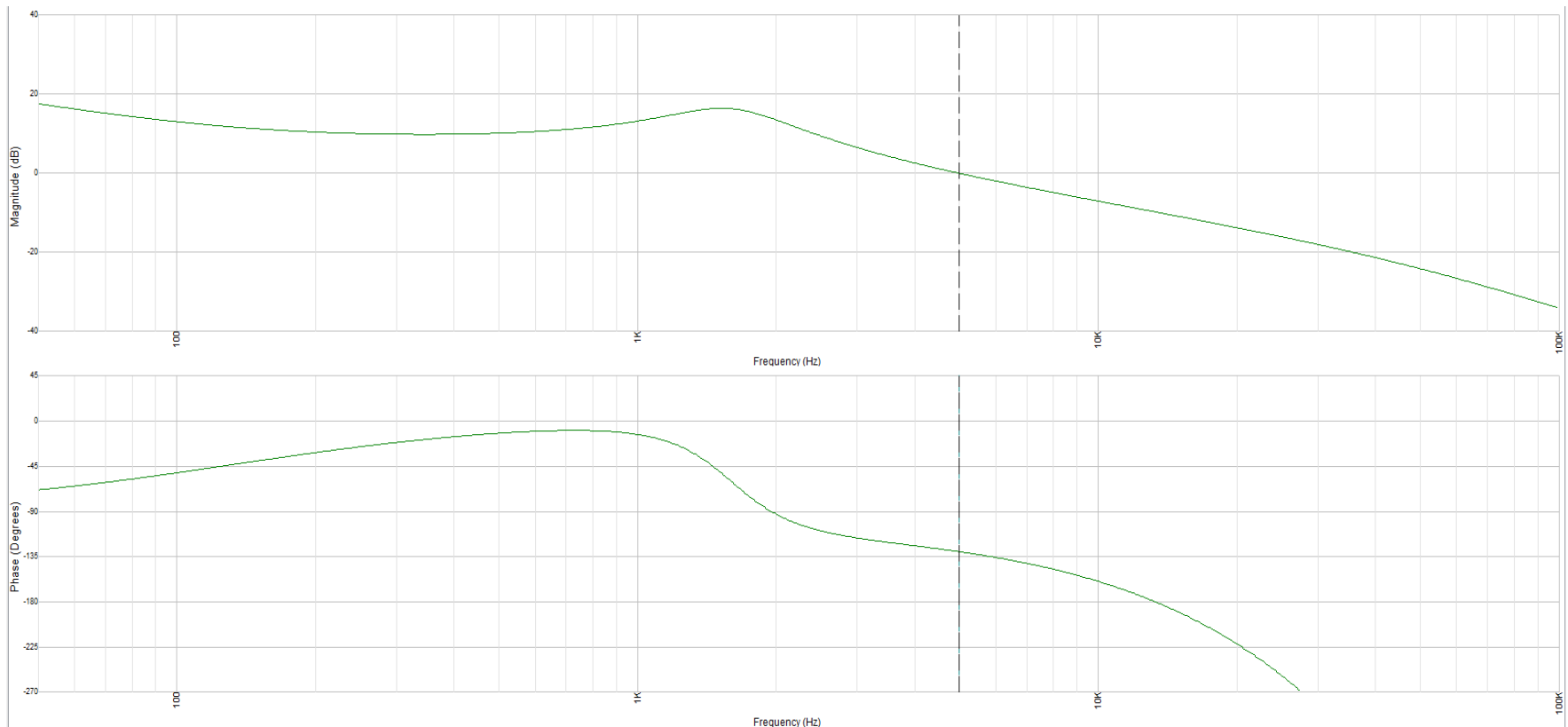
19. Download code and debug

- Click 
- Switch to Debug view
- Click  to run code



Getting Started – Example – XMC1300 Buck Converter in Voltage Control Mode (16/16)

- Expected Frequency Response of the control loop: crossover frequency 5kHz, phase margin 50°, gain margin 10dB



Agenda (2/2)

5

General Information

6

References

6a

- How to load Example Project in DAVE™?

6b

- Where to download Example Projects?

General Information (1/2)

- › Where to buy XMC Digital Power Explorer kit:
 - ISAR Order Name: KIT_XMC_DP_EXP_01

- › Documentation:
 - [XMC Digital Power Explorer Kit](#)
 - [XMC4100 / 4200 Reference Manual](#)
 - [XMC4100 / 4200 Datasheet](#)
 - [XMC1300 Reference Manual](#)
 - [XMC1300 Datasheet](#)

- › Video Series: XMC Digital Power Explorer Kit
 - [XMC Digital Power Explorer Kit - Live Demo](#)

General Information (2/2)

- › Infineon parts utilized on kit:

Infineon Parts	Order Number
XMC1300 Microcontroller	XMC1302-T038X0200
XMC4200 Microcontroller	XMC4200-F64K256
XMC4200 Microcontroller	XMC4200-Q48K256
DC/DC Converter	IFX90121ELV50
Regulator	IFX54441LDV
Diode	BAS 16
Schottky Diode	BAT 54-05
Schottky Diode	BAS 3010B-03W
Dual N-Channel OptiMOS™ MOSFET	BSC0924NDI
High Side & low side gate driver	IRS2011SPBF

Agenda (2/2)

5

General Information

6

References

6a

- How to load Example Project in DAVE™?

6b

- Where to download Example Projects?

References – Where to download Example Projects?

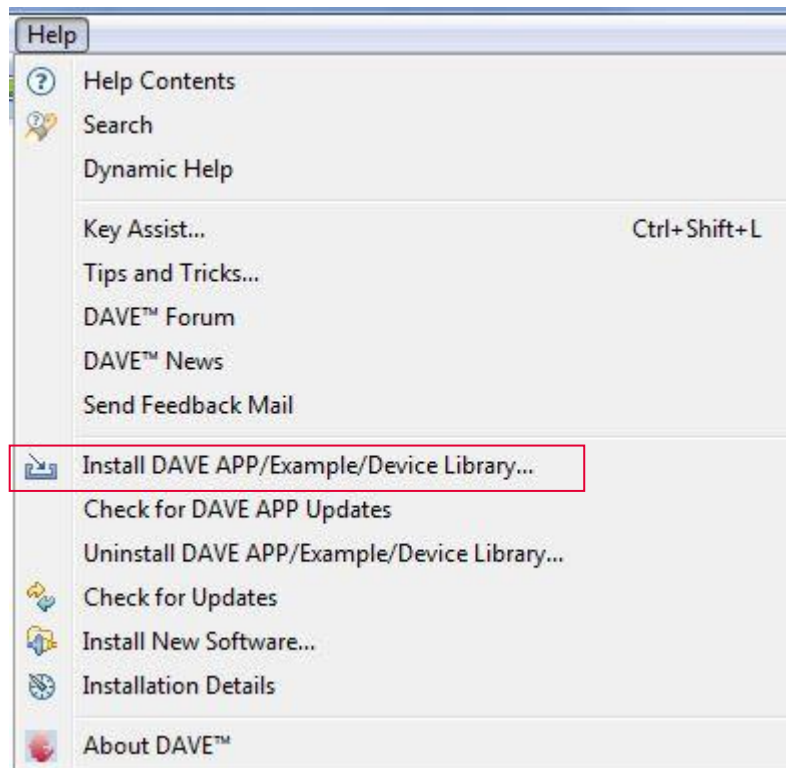


- DAVE™ Project Library Examples
 - Can be downloaded from library in DAVE™

References –

How to load Example Project in DAVE™? (1/3)

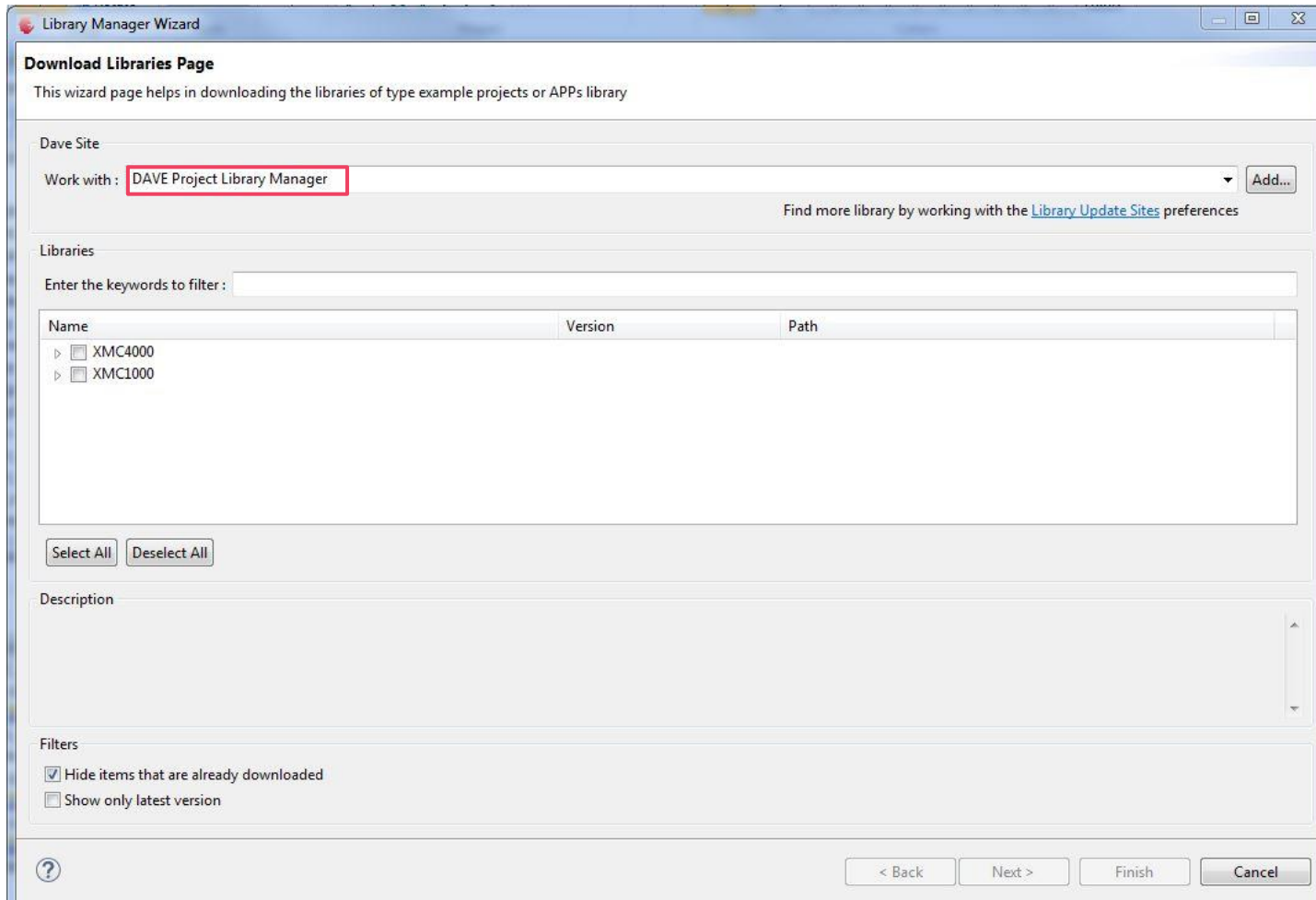
- › Download Example Projects via DAVE™ library store
 - Help → Install DAVE APP/Example/Device Library



References –

How to load Example Project in DAVE™? (2/3)

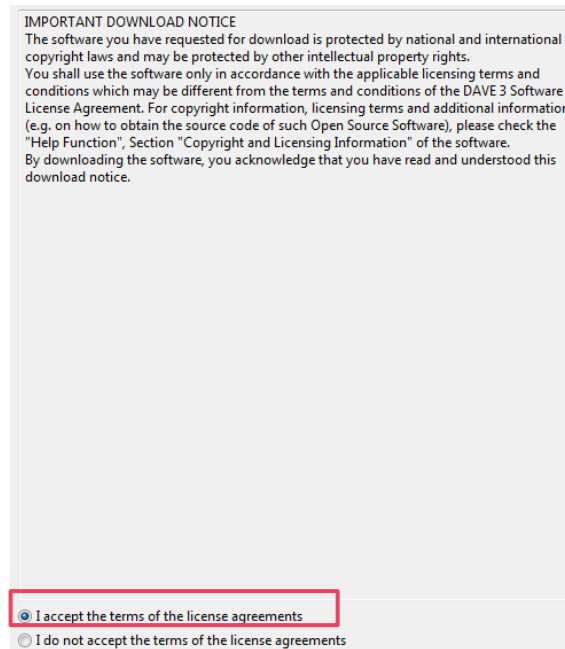
- Select DAVE Project Library Manager in the drop-down menu



References –

How to load Example Project in DAVE™? (3/3)

- Select Examples in the Libraries window and click Next
- Accept terms of the license agreements and click Finish



- DAVE Example Projects are installed



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