Product	Device Pack
Release Version	V2.1.22
Type Of Release*	Productive
Name of the Supplier	Infineon Technologies AG
Mode of Release	Infineon Server(http://dave.infineon.com/)
Date of Release	2017-08-07
Previous Version	V2.1.18

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* All types of releases -med as Alpha, Beta, Release Candidate and Patch are not intended to be used for production code.

1 Released Items

1.1 Libraries

This Device pack contains the Libraries, Examples and templates used for DAVE projects.

Artefacts	Description
XMC Lib (Libraries)	Peripheral drivers for XMC4000 and XMC1000 family microcontrollers.
CMSIS Drivers & headers	CMSIS drivers and system & header files for XMC microcontrollers
TLE Libraries	Drivers for the TLE devices
Linker Script files	Linker script files for devices and variants
Example (Easy start)	Easy start source files
Device Features file	Device details for device selection and link to device specific artefacts
Templates	Templates for DAVE projects

1.2 Device Pack - Test conditions

- Device pack Libraries for the XMC4800 series is verified on all supported derivatives; fully functional test is applied with XMC4800-F144x1024.
- Device pack Libraries for the XMC4500 series is verified on all supported derivatives; fully functional test is applied with XMC4500-F144x1024.
- Device pack Libraries for the XMC4400 series is verified on all supported derivatives; fully functional test is applied with XMC4400-F100x512.
- Device pack Libraries for the XMC4300 series is verified on all supported derivatives; fully functional test is applied with XMC4300-F100x256.
- Device pack Libraries for the XMC4200 series is verified on all supported derivatives; fully functional l test is applied with XMC4200-Q48x256.
- Device pack Libraries for the XMC1100 series is verified on all supported derivatives; fully functional test is applied with XMC1100-T038F0064.
- Device pack Libraries for the XMC1200 series is verified on all supported derivatives; fully functional test is applied with XMC1200-T038F0200.
- Device pack Libraries for the XMC1300 series is verified on all supported derivatives; fully functional test is applied with XMC1302-T038F0200.
- Device pack Libraries for the XMC1400 series is verified on all supported derivatives; fully functional test is applied with XMC1404Q064x0128.

- Compilers used :
  - KEIL: V5.10.0.2
  - IAR: V6.50.6.4958
  - GCC compiler version ARM-GCC-49

2 Support Packages

None

3 Tool Information

DAVE	Device pack (XMC Libraries & CMSIS drivers) is used in DAVE to provide drivers required for the XMC target application development

4 Changes from Previous Version

4.1 Changes from previous version v2.1.18

Sl.no	Description of change
1	XMCLib is updated for multiple LLDs. Please refer XMCLib v2.1.16 release notes for details.

4.2 Changes from previous version v2.1.16

Sl.no	Description of change
1	Update: CMSIS files updated to CMSIS 5.0.1
2	Fix: Linker Script templates Linker was not complaining if sum of data + text sections is bigger that physical FLASH size Earlier update of templates for XMC1100x008 and XMC1100x0016 was missing
3	Fix: Activation of USBPLL when SDMMC clock is enabled in following files system_XMC4300.c system_XMC4500.c system_XMC4700.c system_XMC4800.c

4.3 Changes from previous version v2.1.14

Sl.no	Description of change
1	XMCLib is updated for multiple LLDs. Please refer XMCLib release notes for details.
2	Device support: The following new devices are supported: 1. XMC1201_T028x0016 2. XMC1201_T028x0032 3. XMC1202_T016x0064 4. XMC1301_T016x0032 5. XMC1302_Q040x0200 6. XMC1302_T028x0016 7. XMC1402_T038x0032 8. XMC1402_T038x0064 9. XMC1402_T038x0128 10. XMC1402_T038x0200 11. XMC1402_Q040x0200 12. XMC1402_Q048x0200 13. XMC1403_Q040x0064 14. XMC1403_Q040x0128 15. XMC1403_Q040x0200
3	Fixes and changes in CMSIS header and start-up files: Please refer to the change history in the respective files for details (change history for device header files has to be retrieved from the respective SVD file)

4.4 Changes from previous version v2.1.12

Sl.no	Description of change
1	Fixed XMC43 header file issue of wrong offset for peripheral control registers of ECAT, CCU, CAN, WDT and EXTCLK.

4.5 Changes from previous version v2.1.8

Sl.no	Description of change
1	XMCLib is updated for multiple LLDs. Please refer XMCLib release notes for details.
2	XMC1400 Easy start project source files are updated for port control codes(6-bits)

4.6 Changes from previous version v2.1.6

Sl.no	Description of change
1	Linker script initialization issue for the first variable belonging to BSS section if the total length of the BSS section is not a multiple of 4.

4.7 Changes from previous version v2.1.4

Sl.no	Description of change
1	TLE drivers are updated to resolve the file reference issue.

5 Installation Requirements

- DAVE v4.1.2 or higher version should be installed(we recommend to use DAVE v4.3.2 or higher) or use any other compiler tool chain supporting Infineon Technologies XMC Microcontrollers, e.g. Atollic, IAR, Keil MDK, Rowley, TASKING.

6 Known Limitations

7 Device Pack Revision History