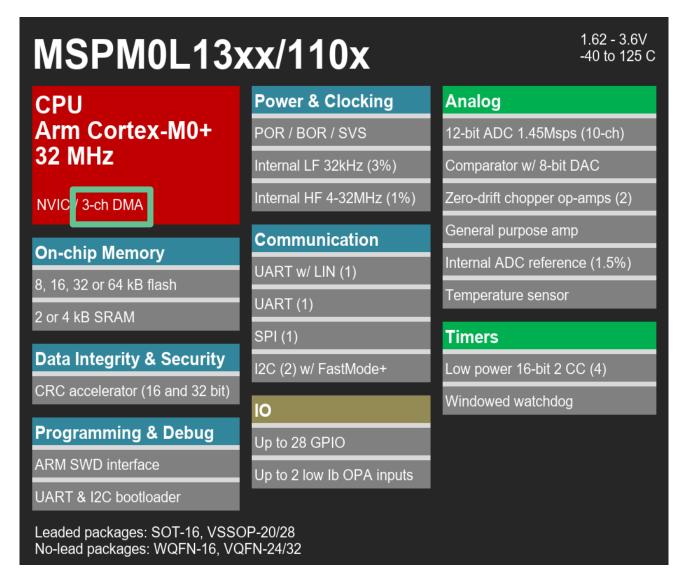
MSPM0 DMA module introduction

— MSPM0 peripheral training series

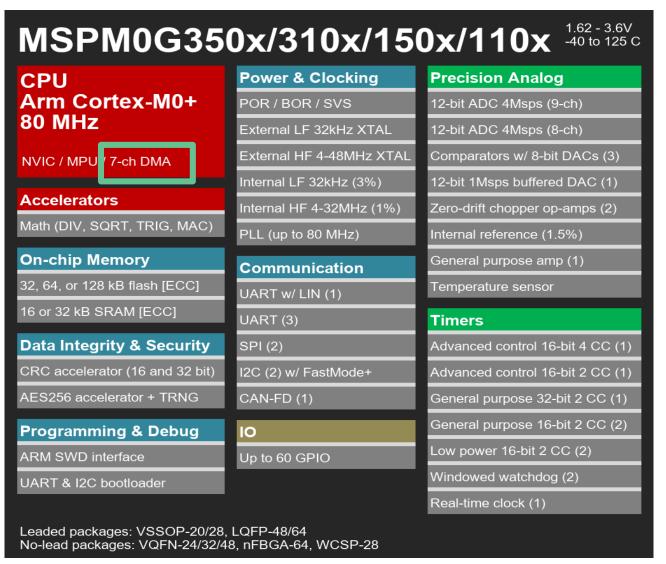
MCU level overview

——MSPM0Lxx series



32 MHz MCU with up to 64kB flash, 32 pins, 12-bit ADC, dual zero-drift OPA/PGA, COMP

----MSPM0Gxx series

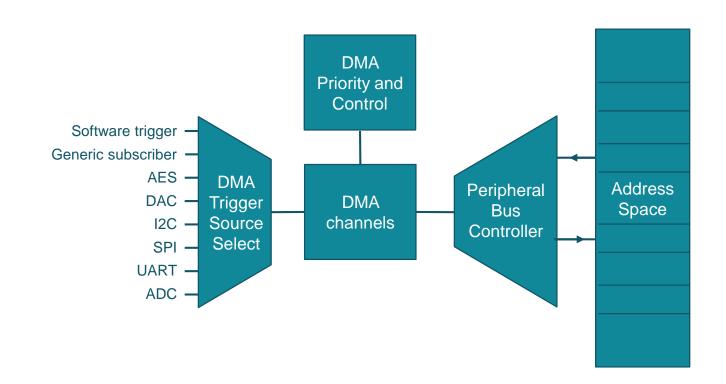


80 MHz MCU with up to 128kB flash, 64 pins, advanced analog, AES/TRNG, CAN-FD

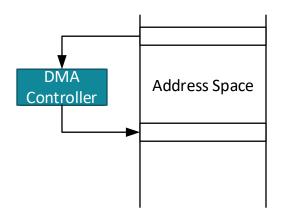
MSPM0 DMA module introduction

Key features

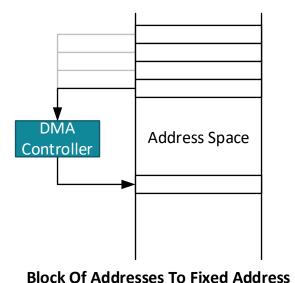
- Up to **sixteen** independent transfer channels
- MSPM0G350x MCUs have 7 DMA channels and MSPM0Lxx MCUs have 3 DMA channels
- Configurable DMA channel priorities
- Byte, short word, word and long word or mixed byte and word transfer capability
- Transfer counter block size supports up to 64k
 transfers of any data type
- Configurable DMA transfer trigger selection
- Six flexible addressing modes
 - 1. Fixed address to fixed address
 - 2. Fixed address to block of addresser
 - 3. Block of addresser to fixed address
 - 4. Block of address to block of addresser
 - 5. Fill data to block of address
 - 6. Data table to specific address
- Single or block transfer modes
- Repeated transfer modes

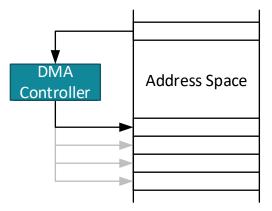


DMA addressing modes

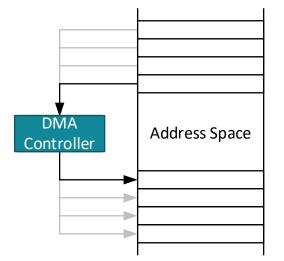


Fixed Address To Fixed Address

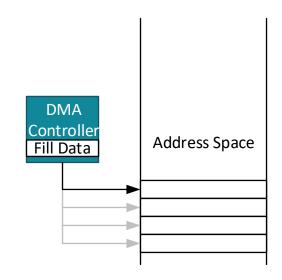




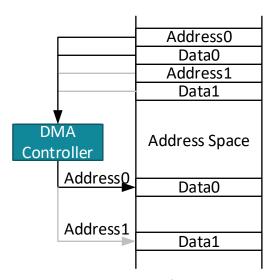
Fixed Addresses To Block Of Addresses



Block Of Addresses To Block Of Addresses

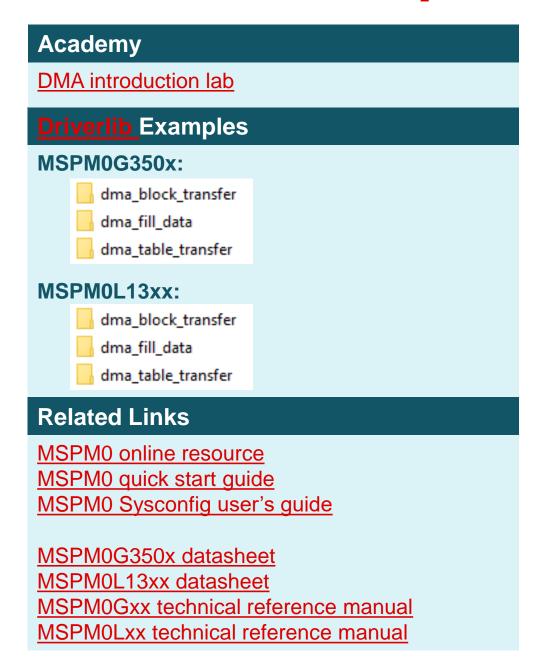


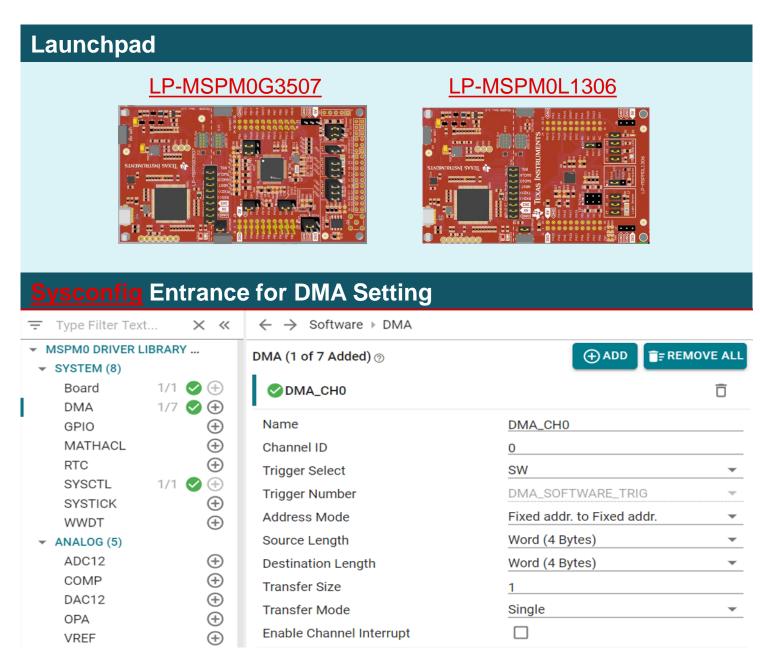
Fill Data To Block Of Addresses



Data Table To Specific Address

DMA module quick start





To learn more about MSPM0, please visit:

- MSPM0 MCUs
- MSPM0 SDK
- MSPM0 Academies