DMA_Stream_TypeDef + CR + NDTR + PAR + M0AR + M1AR + FCR

DMA_InitTypeDef + Channel + Direction + PeriphInc + MemInc + PeriphDataAlignment + MemDataAlignment + Mode + Priority + FIFOMode + FIFOThreshold + MemBurst + PeriphBurst

+Init



- + DR + CRCPR
- + RXCRCR
- + TXCRCR
- + I2SCFGR
- + I2SPR

SPI_InitTypeDef

- + Mode
- + Direction
- + DataSize
- + CLKPolarity
- + CLKPhase
- + NSS
- + BaudRatePrescaler
- + FirstBit
- + TIMode
- + CRCCalculation
- + CRCPolynomial

_DMA_HandleTypeDef

+Instance

- + Lock
- + State
- + Parent
- + XferCpltCallback
- + XferHalfCpltCallback
- + XferM1CpltCallback
- + XferM1HalfCpltCallback
- + XferErrorCallback
- + XferAbortCallback
- + ErrorCode
- + StreamBaseAddress
- + StreamIndex

+Instance +Init

+hdmarx +hdmatx

SPI_HandleTypeDef

- + pTxBuffPtr
- + TxXferSize
- + TxXferCount
- + pRxBuffPtr
- + RxXferSize
- + RxXferCount
- + RxISR
- + TxISR
- + Lock
- + State
- + ErrorCode