

Function name	MUSART_vInit		
Arguments	Input	* A_InitStruct	A_InitStruct Pointer to a structure that contains the configuration information for the specified USART peripheral.
		* A_ClockInitStruct	Pointer to a structure that contains the configuration information for the specified USART peripheral.
		* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	none		
Description	Sets a certain pin's output value on a specific port		

Function name	MUSART_vEnable		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	none		
Description	Enables the USART peripheral		

Function name	MUSART_vDisable		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	none		
Description	Disables the USART peripheral		

Function name	MUSART_vTransmitByte		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
		A_u8Byte	Byte to be transmitted
	Output	none	
Return	none		
Description	Transmits a byte using the USART peripheral		

Function name	MUSART_vTransmitString		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
		* A_ptrc8String	Pointer to the string to be transmitted
	Output	none	
Return	none		
Description	Transmits a string using the USART peripheral		

Function name	MUSART_u8ReceiveByteSynchNonBlocking		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	

Return	Received byte from the USART peripheral		
Description	Receives a byte using the USART peripheral (non-blocking)		

Function name	MUSART_u8ReceiveByteSynchBlocking		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	Received byte from the USART peripheral		
Description	Receives a byte using the USART peripheral (blocking)		

Function name	*MUSART_ptrReceiveStringSynchNonBlocking		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	Pointer to the received string from the USART peripheral		
Description	Receives a string using the USART peripheral (non-blocking)		

Function name	MUSART_vRecieveString		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
		A_c8YourString[]	Pointer to the string to be transmitted
	Output	none	
Return	none		
Description	Receives a string using the USART peripheral (blocking)		

Function name	MUSART_u8CompareString		
Arguments	Input	* String1	Pointer to the first string
		* String2	Pointer to the second string
	Output	none	
Return	SAME_STRING if the strings are equal, DIFFERENT_STRING if not		
Description	Compares two strings using the USART peripheral		

Function name	MUSART_u8ReadDataRegister		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	Status register value		
Description	Reads the status register of the USART peripheral		

Function name	MUSART_vClearFlags		
Arguments	Input	* A_USARTx	Pointer to USARTx registers map
	Output	none	
Return	none		
Description	Clears the status register of the USART peripheral		

Function name	MUSART_vRxIntSetStatus		
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Arguments	Input	* A_USARTx	Pointer to USARTx registers map
		A_u8Status	Status of the RX interrupt (ENABLE/DISABLE)
	Output	none	
Return	none		
Description	Set the status of the RX interrupt		

Function name	MUSART1_vSetCallBack		
Arguments	Input	*Fptr	Pointer to the callback function
	Output	none	
Return	none		
Description	Set UART1 RX callback function		

Function name	MUSART2_vSetCallBack		
Arguments	Input	*Fptr	Pointer to the callback function
	Output	none	
Return	none		
Description	Set UART2 RX callback function		

Function name	MUSART3_vSetCallBack		
Arguments	Input	*Fptr	Pointer to the callback function
	Output	none	
Return	none		
Description	Set UART3 RX callback function		