

### Pinbelegung der Erweiterungsbuchse Pin assignments of the add-on-socket

1 = Port A.0	13 = 3.3 V
2 = Port A.1	14 = GND
3 = Port A.2	15 = Port B.4
4 = Port A.3	16 = Port B.5
5 = Port A.4	17 = Port B.6
6 = Port A.5	18 = Port B.7
7 = Port A.6	19 = Port F.0
8 = Port A.7	20 = Port F.1
9 = Port A.8	
10 = Port B.0	
11 = Port B.1	
12 = Port B.3	

### Timer:

	TIM1	TIM2	TIM3	TIM14	TIM16	TIM17
	APB2	APB1 (max 48MHz)	APB1 (max 48MHz)	APB2 (max 48MHz)		
CH1	A8 (AF2)	A0 (AF2)	A6 (AF1)	A4 (AF4)	A6 (AF5)	A7 (AF5)
CH2	A9 (AF2)	A1 (AF2)	A7 (AF1)			
CH3	A10 (AF2)	A2 (AF2)	B0 (AF1)			
CH4	A11 (AF2)	A3 (AF2)	B1 (AF1)			
ETR	A12 (AF2)	A5 (AF2)				

### USART:

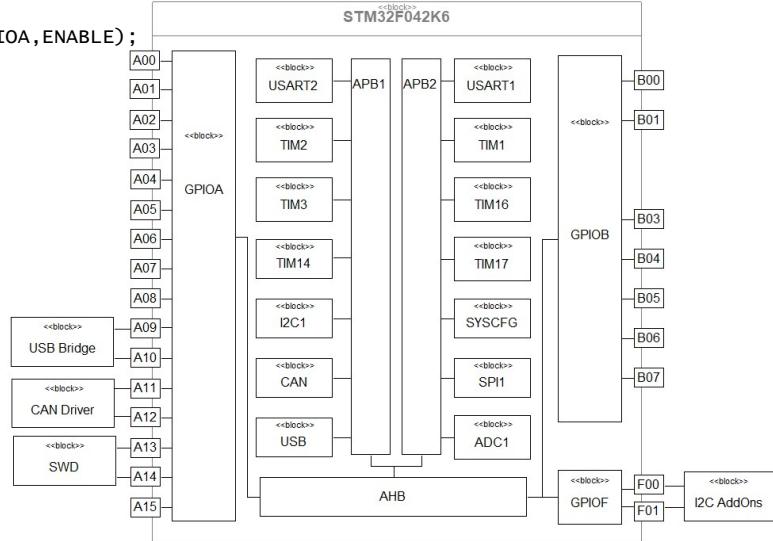
	USART1	USART2
	APB2 (max 48MHz)	APB1 (max 48MHz)
TX	A9 (AF1)	B6 (AF0)
RX	A10 (AF1)	B7 (AF0)

### I<sup>2</sup>C:

	SDA	SCL
	APB1 (8MHz, max 48MHz)	
I2C1	F0 (AF1)	B7 (AF1)

### SPI:

	MOSI	MISO	SCK
	APB2 (max 48MHz)		
SPI1	A7 (AF0)	B3 (AF0)	A6 (AF0)



### Interrupts STM32F042: extern "C" void vektor () { ... ClearITPendingBit(...); }

EXTI0_1_IRQHandler	//EXTI Line 0 and 1	extern "C" void EXTI0_1_IRQHandler()
EXTI2_3_IRQHandler	//EXTI Line 2 and 3	extern "C" void EXTI2_3_IRQHandler()
EXTI4_15_IRQHandler	//EXTI Line 4 to 15	extern "C" void EXTI4_15_IRQHandler()
DMA1_Channel1_IRQHandler	//DMA1 Channel 1	extern "C" void DMA1_Channel1_IRQHandler()
ADC1_IRQHandler	//ADC Interrupts	extern "C" void ADC1_IRQHandler()
TIM1_BRK_UP_TRG_COM_IRQHandler	//TIM1 Break, Update, Trigger	extern "C" void TIM1_BRK_UP_TRG_COM_IRQHandler()
TIM1_CC_IRQHandler	//TIM1 Capture Compare	extern "C" void TIM1_CC_IRQHandler()
TIM2_IRQHandler	//TIM2 Interrupt	extern "C" void TIM2_IRQHandler()
TIM3_IRQHandler	//TIM3 Interrupt	extern "C" void TIM3_IRQHandler()
TIM4_IRQHandler	//TIM4 Interrupt	extern "C" void TIM4_IRQHandler()
TIM6_IRQHandler	//TIM6 Interrupt	extern "C" void TIM6_IRQHandler()
TIM7_IRQHandler	//TIM7 Interrupt	extern "C" void TIM7_IRQHandler()
I2C1_IRQHandler	//I2C1 Interrupt	extern "C" void I2C1_IRQHandler()
SPI1_IRQHandler	//SPI1 Interrupt	extern "C" void SPI1_IRQHandler()
USART1_IRQHandler	//USART1 Interrupt	extern "C" void USART1_IRQHandler()
USART2_IRQHandler	//USART2 Interrupt	extern "C" void USART2_IRQHandler()
CEC_CAN_IRQHandler	//CEC and CAN Interrupts	extern "C" void CEC_CAN_IRQHandler()

### ADC:

ADC	Channel
APB2 (max 14MHz)	
A0	0
A1	1
A2	2
A3	3
A4	4
A5	5
A6	6
A7	7
B0	8
B1	9
Intern Temp.-Sensor	10
Intern VREF	11
Intern VBAT	12

## Kurzübersicht / short overview mySTM32 C++ PEC Portable Embedded Framework (Beispiele / Examples)

