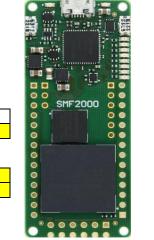
## TRENZ SMF2000; M2S010-400VF (VFG400) core; STD Speed; COM Range; 1.2V core; 3.3V IO; 25/50MHz (50MHz) oscilator as clock source; 71MHz bus/peripherals; 142MHz M3 clock

	GB5	USB_XCLK_C	MSIO21PB1	G17 USER_LED (left)
MMUART_0_CLK	GPIO_29_B	USB_NXT_C	MSIO27NB1	B19 USER_BTN (right)
MMUART_0_RXD	GPIO_28_B	USB_STP_C	MSIO27PB1	C19 FTDI BDBUS0
MMUART_0_TXD	GPIO_27_B	USB_DIR_C	MSI26NB1	D18 FTDI BDBUS1
MMUART_0_CTS	GPIO_19_B	USB_DATA7_C	MSIO24PB1	<b>E17</b> FTDI BDBUS2
MMUART_0_RTS	GPIO_17_B	USB_DATA5_C	MSIO23PB1	F15 FTDI BDBUS3
MMUART_0_DSR	GPIO_20_B		MSIO24NB1	<b>E16</b> FTDI BDBUS4
MMUART_0_DTR	GPIO_18_B	USB_DATA6_C	MSIO23NB1	F16 FTDI BDBUS5

Clocks					
25 MHz	Y18/W18	XTAL <b>MAIN</b>			
32.768 kHz	W17/Y17	XTAL AUX (RTC)			
12 MHz from FTDI	N16	CCC_NEO_CLK1			
User clock	M17	CCC_NEO_CLK2			

MSIO22PB1 LED1 E18 LED2 **R17** MSIO5PB2 USB DATA4 B LED3 R18 MSIO5NB2 USB DATA5 B LED4 T18 MSIO2PB2 USB STP B LED5 U18 MSIO1PB2 USB XCLK B LED6 R16 MSIO7PB2 LED7 **E1** MSIO70PB7 LED8 D2 MSIO68PB7

QSPI FLASH 8MB W74M64FV						
CSn	K15	MSIO17NB2	SPI_1_SS7	GPIO_24_A		
CLK	P18	MSIO6PB2	USB_DATA6_B			
<b>DI</b> SI/IO0	P19	MSIO6NB2		_		
<b>DO</b> SI/IO1	K16	MSIO17PB2	SPI_1_SS6	GPIO_23_A		
D2 WPn/IO2	J18	MSIO16NB2	SPI_1_SS5	GPIO_18_A		
D3 HOLDn/IO3	N19	MSIO4NB2	USB_DATA3_B			



MMUART 1 CLK

GB6

GPIO 25 B

SDRAM W9864G6JT 8MB (upto 166MHz)

Timming example @100MHz

SMC & AHBLite (AHB Master -> CoreAHBLite -> CORE\_AHBL\_TO\_AXI -> CoreAXI -> MSS\_SMC)

Parameters #ChipSelects=1 #ColumnBits=8 #RowBits=12 #EncodedChipSelectBits=1 #BankStatusModules=4 MemoryWidth=16

Timmings Act->Pre=2 Act->Rw/Wr=2 A->B-bank=2 Pre-command=3 Act->AutoRefresh=8 AutoRefresh->Act=9 WriteRecovery=2 LoadCMD->Act=2 CAS=2 Init=6800ns Refresh=4096 Buffer&AutoPre=No DQ IO(F1, G1, E2, G2, E3, G3, F3, F4, J7, G6, F6, H5, H6, H4, F5, G4)

SDRCLK O(T14); OE NC; SA O(U11, U12, V11, Y10, W15, U14, Y15, W14, T15, W13, T13, V14, V15, Y16); BA O(W10, V12); CS\_N O(R13); DQM O(E5, F7); CKE O(Y13); RAS\_N O(U13); CAS\_N O(Y12); WE\_N O(R12)

