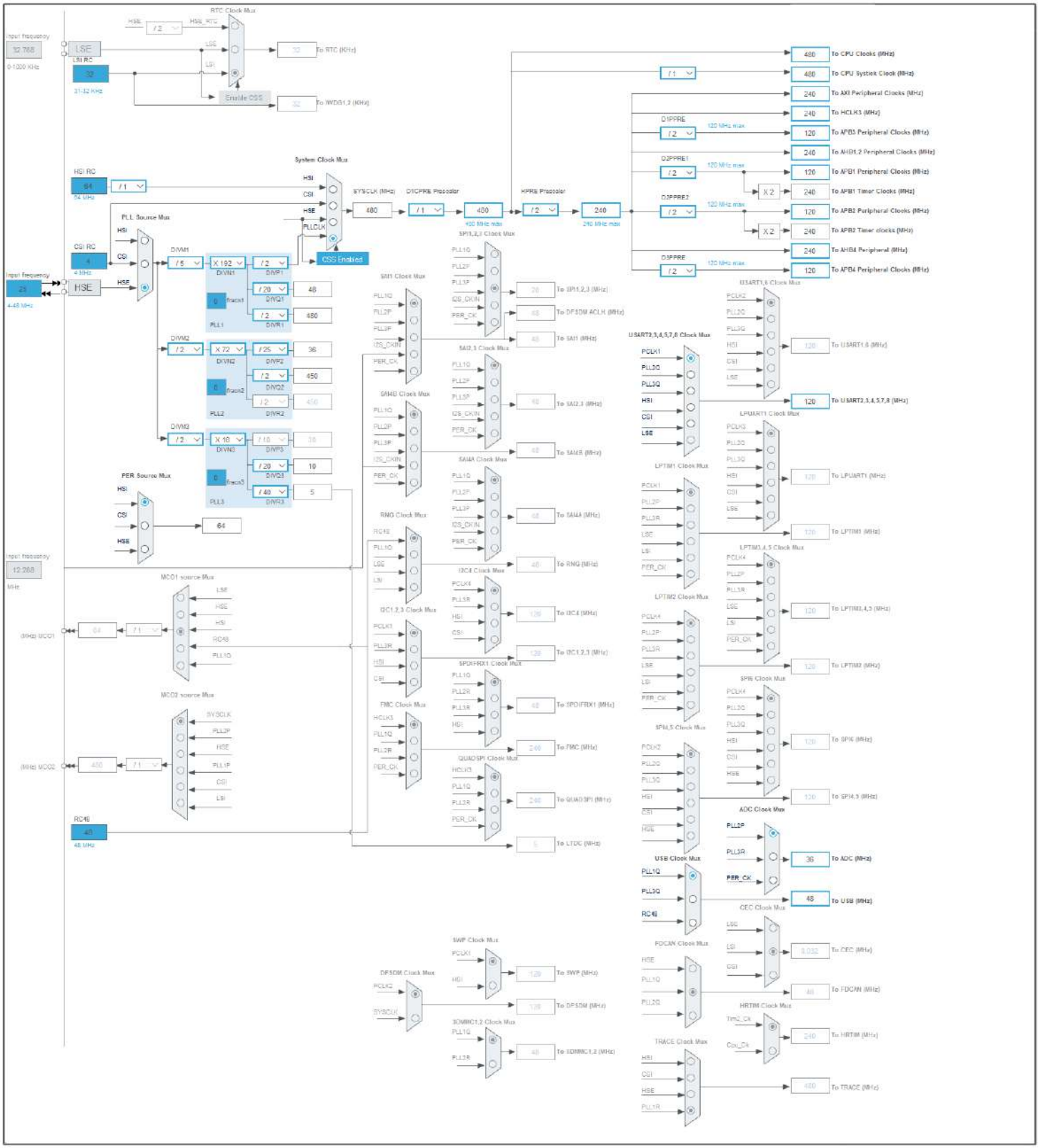
RTC Clock Mux
Input frequency
32.768
0-1000 KHz
LSE
LSI RC
32
31-32 KHz
HSE
/ 2
HSE_RTC
LSE
LSI
32
To RTC (KHz)
Enable CSS
32
To IWDG1,2 (KHz)
System Clock Mux
HSI RC
64
64 MHz
/ 1
HSI
CSI
HSE
PLLCLK
SYSCLK (MHz)
480
D1CPRE Prescaler
/ 1
480
480 MHz max
HPRE Prescaler
/ 2
240
240 MHz max
CSS Enabled
PLL Source Mux
CSI RC
4
4 MHz
Input frequency
23
4-48 MHz
HSE
DIVM1
/ 5
X 192
DIVN1
/ 2
DIVP1
/ 20
DIVQ1
48
/ 2
DIVR1
480
frac1
0
PLL1
DIVM2
/ 2
X 72
DIVN2
/ 25
DIVP2
36
/ 2
DIVQ2
450
/ 2
DIVR2
450
frac2
0
PLL2
DIVM3
/ 2
X 18
DIVN3
/ 18
DIVP3
18
/ 20
DIVQ3
10
/ 40
DIVR3
5
frac3
0
PLL3
PER Source Mux
HSI
CSI
HSE
64
Input frequency
12.288
MHz
MCO1 source Mux
LSE
HSE
HSI
RC48
PLL1Q
(MHz) MCO1
64
/ 1
MCO2 source Mux
SYSCLK
PLL2P
HSE
PLL1P
CSI
LSI
(MHz) MCO2
480
/ 1
RC48
48
48 MHz
SPI1,2,3 Clock Mux
SAI1 Clock Mux
SAI2,3 Clock Mux
SAI4B Clock Mux
SAI4A Clock Mux
RNG Clock Mux
I2C4 Clock Mux
I2C1,2,3 Clock Mux
SPDIFRX1 Clock Mux
FMC Clock Mux
QUADSPI Clock Mux
To SPI1,2,3 (MHz)
To DFSDM ACLK (MHz)
To SAI1 (MHz)
To SAI2,3 (MHz)
To SAI4B (MHz)
To SAI4A (MHz)
To RNG (MHz)
To I2C4 (MHz)
To I2C1,2,3 (MHz)
To SPDIFRX1 (MHz)
To FMC (MHz)
To QUADSPI (MHz)
To LTDC (MHz)
SWP Clock Mux
DFSDM Clock Mux
SDMMC1,2 Clock Mux
To SWP (MHz)
To DFSDM (MHz)
To SDMMC1,2 (MHz)
To CPU Clocks (MHz)
To CPU Systick Clock (MHz)
To AXI Peripheral Clocks (MHz)
To HCLK3 (MHz)
D1PPRE
/ 2
120 MHz max
To APB3 Peripheral Clocks (MHz)
To AHB1,2 Peripheral Clocks (MHz)
D2PPRE1
/ 2
120 MHz max
To APB1 Peripheral Clocks (MHz)
X 2
To APB1 Timer Clocks (MHz)
D2PPRE2
/ 2
120 MHz max
To APB2 Peripheral Clocks (MHz)
X 2
To APB2 Timer clocks (MHz)
To AHB4 Peripheral (MHz)
D3PPRE
/ 2
120 MHz max
To APB4 Peripheral Clocks (MHz)
USART1,6 Clock Mux
To USART1,6 (MHz)
USART2,3,4,5,7,8 Clock Mux
To USART2,3,4,5,7,8 (MHz)
LPUART1 Clock Mux
To LPUART1 (MHz)
LPTIM1 Clock Mux
To LPTIM1 (MHz)
LPTIM3,4,5 Clock Mux
To LPTIM3,4,5 (MHz)
LPTIM2 Clock Mux
To LPTIM2 (MHz)
SPI6 Clock Mux
To SPI6 (MHz)
SPI4,5 Clock Mux
To SPI4,5 (MHz)
ADC Clock Mux
To ADC (MHz)
USB Clock Mux
To USB (MHz)
CEC Clock Mux
To CEC (MHz)
FDCAN Clock Mux
To FDCAN (MHz)
HRTIM Clock Mux
To HRTIM (MHz)
TRACE Clock Mux
To TRACE (MHz)