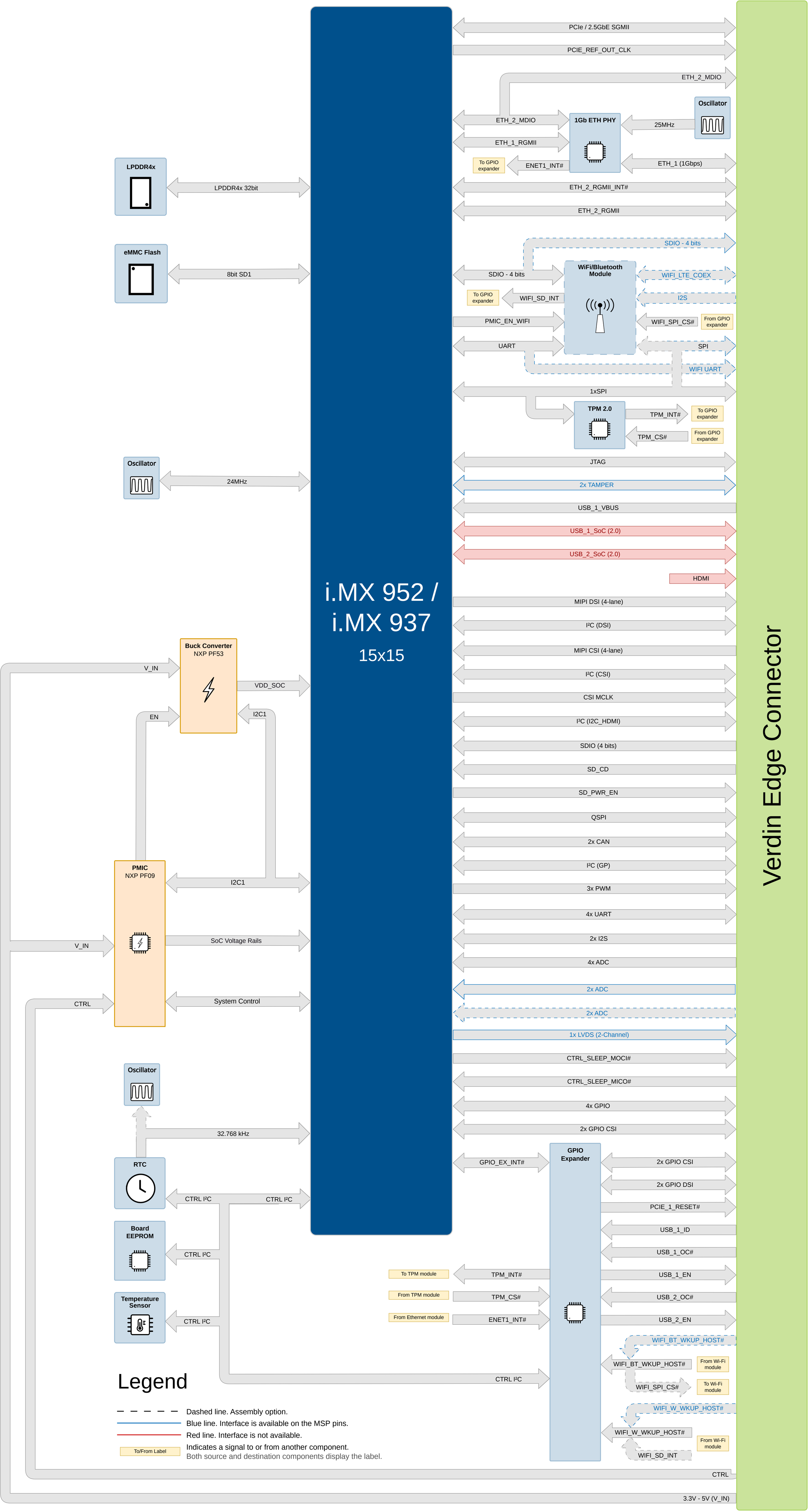

i.MX 952 / i.MX 937
15x15
Verdin Edge Connector
LPDDR4x
LPDDR4x 32bit
eMMC Flash
8bit SD1
Oscillator
24MHz
Buck Converter
NXP PF53
V_IN
VDD_SOC
EN
I2C1
PMIC
NXP PF09
I2C1
V_IN
SoC Voltage Rails
CTRL
System Control
Oscillator
32.768 kHz
RTC
CTRL I²C
CTRL I²C
Board EEPROM
CTRL I²C
Temperature Sensor
CTRL I²C
PCIe / 2.5GbE SGMII
PCIE_REF_OUT_CLK
ETH_2_MDIO
ETH_2_MDIO
1Gb ETH PHY
25MHz
Oscillator
ETH_1_RGMII
To GPIO expander
ENET1_INT#
ETH_1 (1Gbps)
ETH_2_RGMII_INT#
ETH_2_RGMII
SDIO - 4 bits
SDIO - 4 bits
WiFi/Bluetooth Module
WIFI_LTE_COEX
To GPIO expander
WIFI_SD_INT
I2S
PMIC_EN_WIFI
WIFI_SPI_CS#
From GPIO expander
UART
SPI
WIFI UART
1xSPI
TPM 2.0
TPM_INT#
To GPIO expander
TPM_CS#
From GPIO expander
JTAG
2x TAMPER
USB_1_VBUS
USB_1_SoC (2.0)
USB_2_SoC (2.0)
HDMI
MIPI DSI (4-lane)
I²C (DSI)
MIPI CSI (4-lane)
I²C (CSI)
CSI MCLK
I²C (I2C_HDMI)
SDIO (4 bits)
SD_CD
SD_PWR_EN
QSPI
2x CAN
I²C (GP)
3x PWM
4x UART
2x I2S
4x ADC
2x ADC
2x ADC
1x LVDS (2-Channel)
CTRL_SLEEP_MOCI#
CTRL_SLEEP_MICO#
4x GPIO
2x GPIO CSI
GPIO_EX_INT#
GPIO Expander
2x GPIO CSI
2x GPIO DSI
PCIE_1_RESET#
USB_1_ID
USB_1_OC#
To TPM module
TPM_INT#
USB_1_EN
From TPM module
TPM_CS#
USB_2_OC#
From Ethernet module
ENET1_INT#
USB_2_EN
WIFI_BT_WKUP_HOST#
WIFI_BT_WKUP_HOST#
From Wi-Fi module
WIFI_SPI_CS#
To Wi-Fi module
WIFI_W_WKUP_HOST#
WIFI_W_WKUP_HOST#
From Wi-Fi module
WIFI_SD_INT
CTRL I²C
CTRL
3.3V - 5V (V_IN)
Legend
Dashed line. Assembly option.
Blue line. Interface is available on the MSP pins.
Red line. Interface is not available.
To/From Label
Indicates a signal to or from another component.
Both source and destination components display the label.