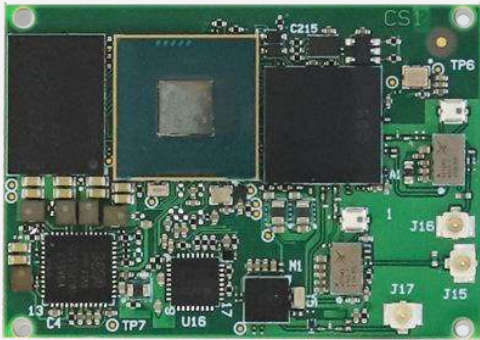


I.MX 8XLITE SOM

2 x Arm Cortex-A35, 1 x Cortex-M4F, 1.2GHz

NXP i.MX 8X Lite Processor

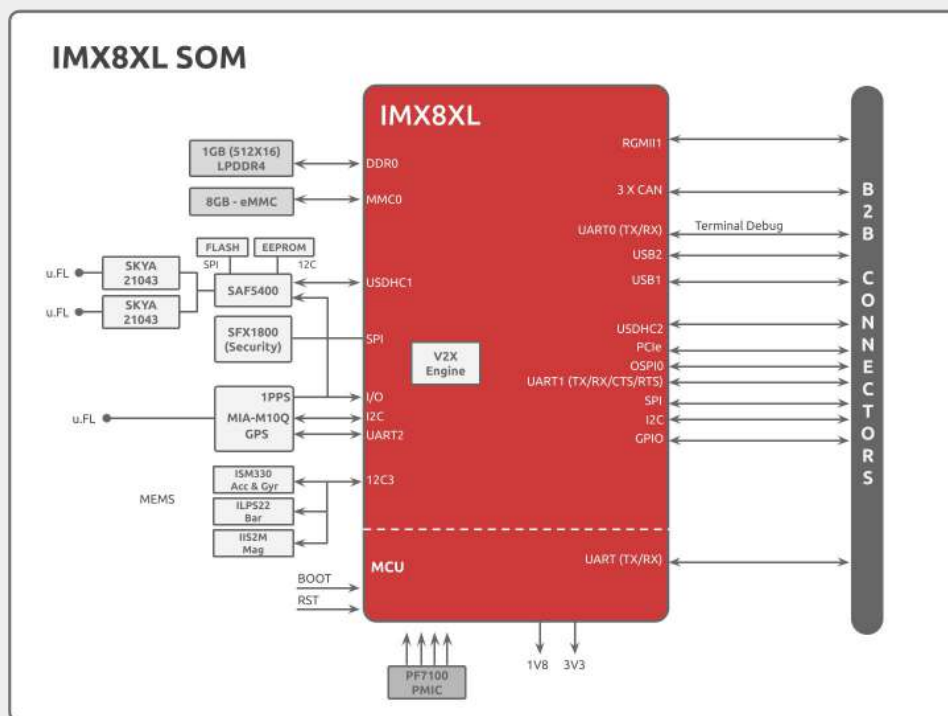
System on Module



- Built-in V2X and V2I capabilities
- Supports Ethernet, CAN, PCIe, and USB 2.0 for advanced communications
- Small form factor and low power consumption



i.MX 8X Lite V2X Telematics		
CPU Details	CPU Name	NXP i.MX 8X Lite Automotive grade
	CPU Type	2 x Cortex A35 1 x Cortex M4F
	CPU Speed	1.2GHz Industrial / Automotive
RAM	Memory & Storage	1GB LPDDR4 with inline ECC Optional - 2GB LPDDR4
	Internal Storage	Starting from 8GB eMMC (Default)
	External Storage Support	NOR-Flash SD, USB 2.0 PCIe-SSD
Networking	Ethernet	1 RGMII (The ethernet switch and phy on the carrier board)
	Security	IEEE802.11P (DSRC) Transceiver Dual NXP SAF5400 (2x u-FL) HSM NXP SFX1800 - V2X security
Navigation	GNSS	GNSS U-blox M10 (1x u-FL)
	Inertial Measurement Unit	IMU 9 axis (6 + 3) Pressure sensor (Altimeter)
Connectivity	USB 2.0	2
	PCIe	1
	I2C	2
	SPI	2
	UART	2
	GPIO	✓
	PWM	✓
	SD/ eMMC	1
	JTAG	Test point header
OS Support	Embedded Linux	Linux (Yocto or Debian) Including API for DSRC subsystem
Physical	Size	50 x 35 mm
	Interface	2 x Hirose DF12NC Automotive connectors
Power	Main Voltage	5V
	I/O Voltage	3.3V / 1.8V
Environment	Temperature	Industrial: -40°C to 85°C Industrial Extended: -40°C to 105°C
	Humidity	Humidity (Non-condensing): 10% – 90%



Ordering Information

Kits	
Available in Shop	Description
Buy Now	Up to 2 x Arm Cortex-A35, 1 x Cortex-M4F, 1.2GHz. With a built-in V2X and V2I capabilities. Supports Ethernet, CAN, PCIe, and USB 2.0 for advanced communications and small form factor and low power consumption. Includes i.MX 8XLite Dual SOM HummingBoard i.MX 8XLite V2X Addon Board Heatsink Interface Cable

For more information about the i.MX 8XLite SOM Software/Hardware visit our:

[**Developer Center**](#)