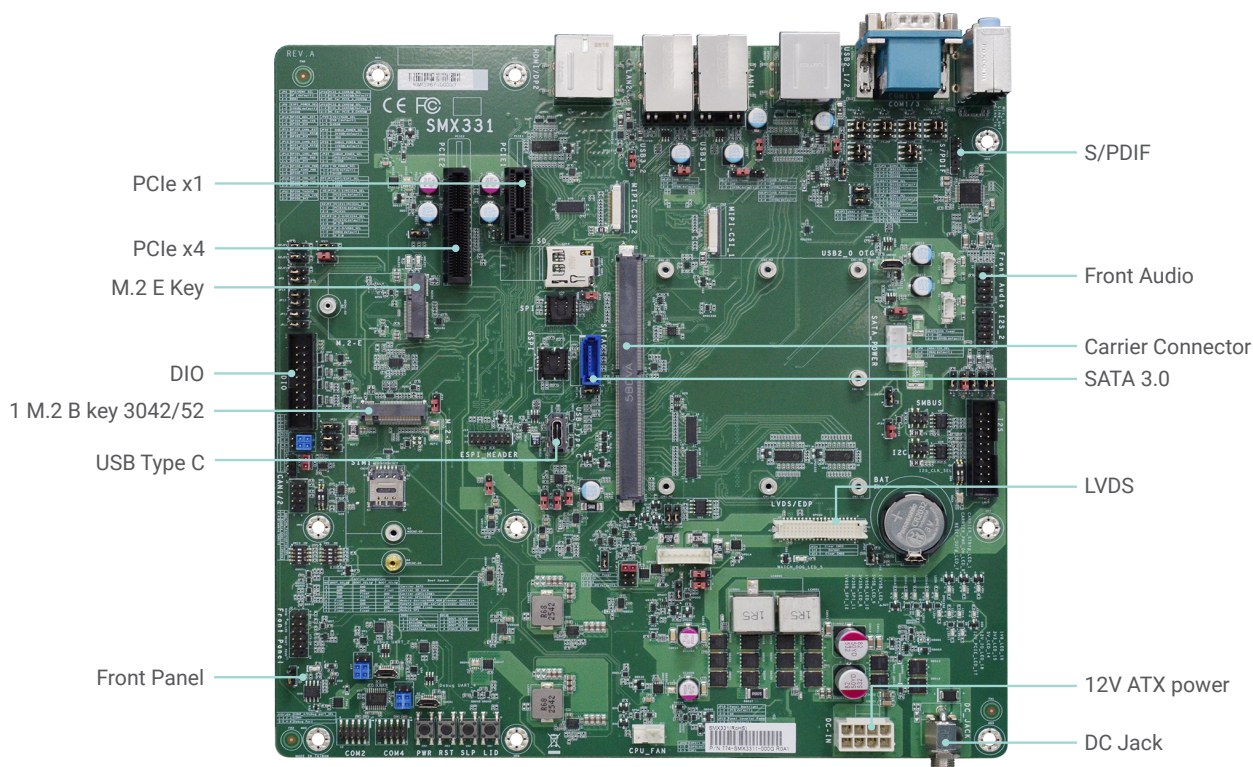
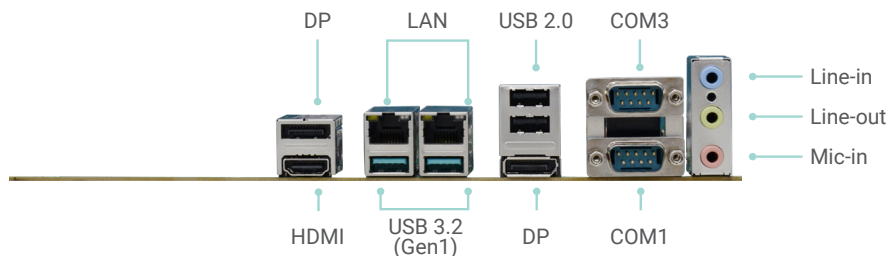


SMX331

SMARC® Carrier Board
microATX form factor

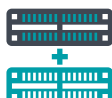


KEY FEATURES



Multiple Displays

HDMI, LVDS, DP, eDP



Multiple Expansion

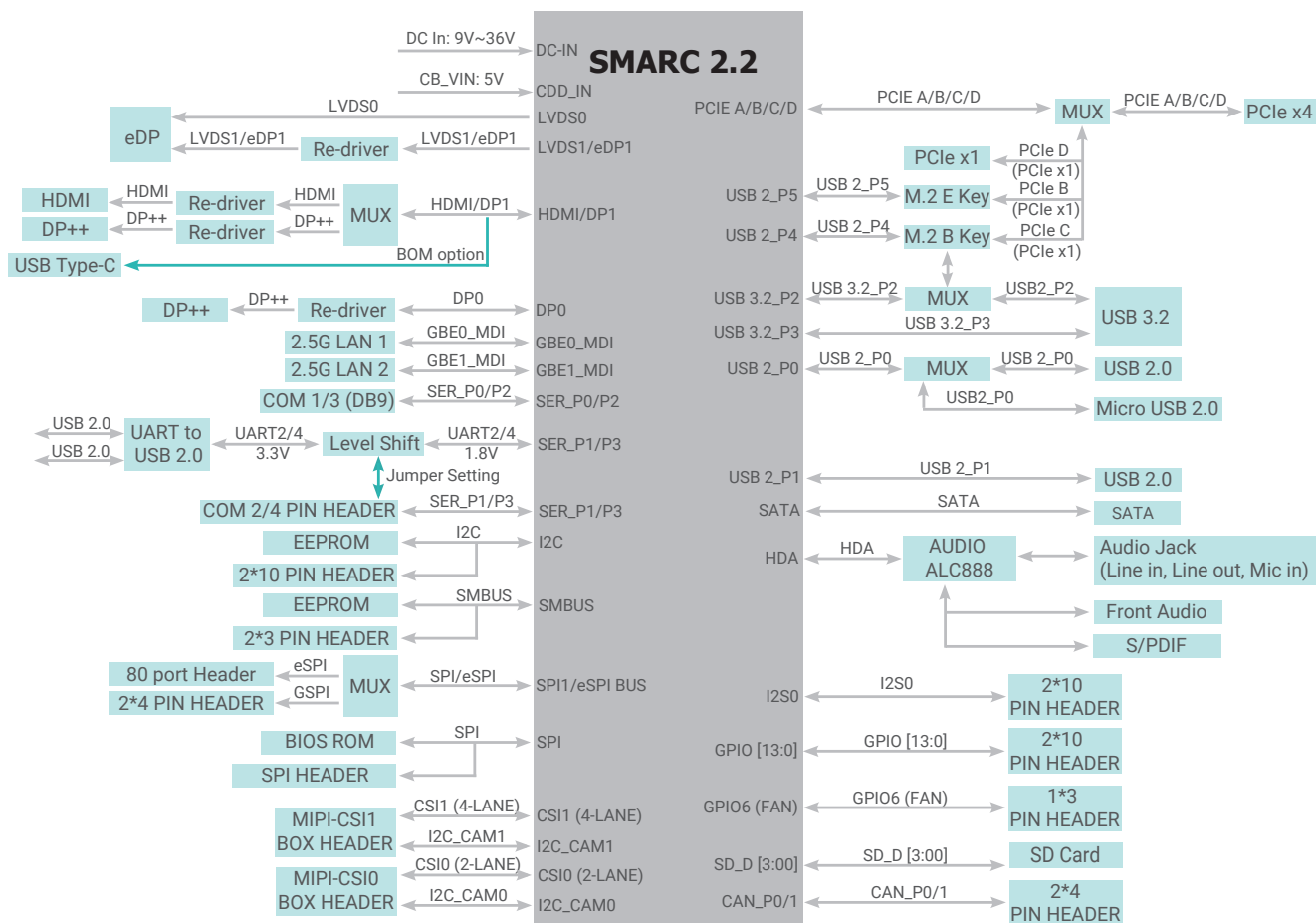
1 PCIe x4, 1 PCex1,
1 M.2 E Key 2230,
1 M.2 B key 3042/52



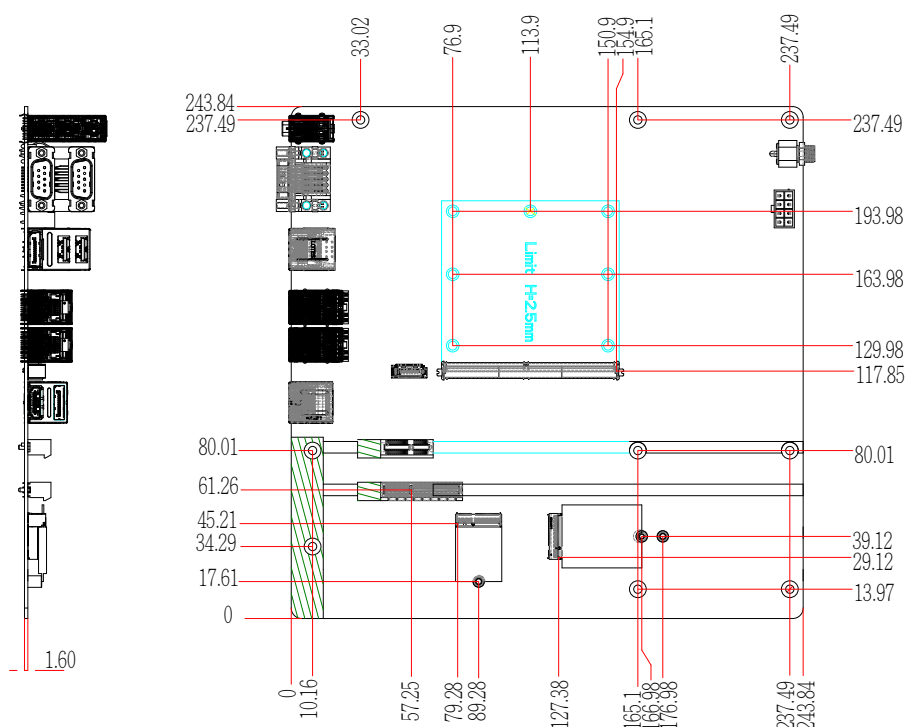
Rich I/O

2 2.5 GbE,
2 USB 3.2 (Gen1),
2 USB 2.0

BLOCK DIAGRAM



MECHANICAL DRAWING



SPECIFICATION

GRAPHICS	Display	1 x HDMI 1 x LVDS/eDP (eDP available upon request) 2 x DP
EXPANSION	Interface	1 x PCIe x4 1 x PCIe x1 1 x M.2 E Key 2230 1 x M.2 B Key 3042/3052 1 x micro SD card
AUDIO	Audio Codec	Realtek ALC888S-VD2-GR
I/O	Ethernet	2 x 2.5GbE (RJ-45)
	USB	2 x USB 3.2 (Gen1) 2 x USB 2.0
	Display	2 x DP
	Audio	1 x Line-in 1 x Line-out 1 x Mic-in
	Serial	2 x RS232
INTERNAL I/O	Serial	2 x Serial Interface Connector (TX/RX)
	Display	1 x eDP/LVDS LCD Connector 1 x LCD/Inverter Power
	Audio	1 x Audio (Line-out/Mic-in) 1 x S/PDIF
	USB	2 x USB 2.0 (M.2 B Key & M.2 E Key support)
	SATA	1 x SATA 3.0 (up to 6Gb/s)
	DIO	1 x 14-bit DIO
	eSPI	1 x eSPI
	I2C	1 x I2C
	SMBus	1 x SMBus
	MIPI-CSI	1 x 4-lanes MIPI-CSI + 1 x 2-lanes MIPI-CSI
	SPI	1 x SPI
	CAN	2 x CAN bus
POWER	Type	1 x 8-pin ATX power connector (12V DC_In) 9V-36V DC-in jack
	Connector	1 x 8-pin ATX power connector 1 x DC-in jack
	RTC Battery	CR2032 Coin Cell
ENVIRONMENT	Temperature	Operating: -40 to 85°C Storage: -40 to 85°C
	Humidity	Operating: 5 to 90% RH Storage: 5 to 90% RH
	MTBF	TBD
MECHANICAL	Dimensions	microATX Form Factor 244mm (9.6") x 244mm (9.6")
	Compliance	SMARC V2.2
CERTIFICATIONS	Certifications	CE, FCC, RoHS

ORDERING INFORMATION

Model Name	Part Number	2.5GbE	USB 3.2	USB 2.0	Power	Thermal	Temp.
SMX331	770-SMX3311-000G	2	2	2	ATX/AT	NA	-40 to 85°C

PACKING LIST

• 1 SMX331 board
