

COM Express Type 10 Elkhart Lake

COM Express Type 10 Mini Size
Prototyping Kit based on Intel® 6th
Gen Atom® x6211E Dual-core SoC



Features

- Based on Intel® 6th Gen Atom® x6211E dual-core SoC with integrated GPU
- Equipped with COM Express R3.0 compliant Type 10 Mini size module, nanoX-EL
- Equipped with COM Express R3.0 compliant Type 10 carrier at minilTX dimension
- Industrial-grade quality and 10-year+ product availability
- Supports Windows 10, Linux, and Ubuntu OS

Specifications

Core System	SoC	Intel 6th Gen Atom® x6211E Dual Core SoC
	Architecture	x86
	Memory	2GB LPDDR4
	Embedded BIOS	AMI UEFI with CMOS backup in 32/16MB SPI BIOS
	IoT Security	TPM 2.0*, Intel® AES-NI, Secure Key, Execute Disable Bit, Intel® OS Guard, Intel® Boot Guard
Video	GPU Core	Intel® UHD Graphics based on Intel® Gen 11 LP Graphics architecture
	Video Decoding	HEVC/H.265 10-bit/8-bit, H.264, M/JPEG, MPEG2, VC1/WMV9, VP9, VP8
	Video Encoding	HEVC/H.265 10-bit/8-bit, H.264, M/JPEG, VP9
Audio	Chipset	Integrated on SoC
	Codec	Realtek ALC262
Ethernet	LAN	2x GbE

Specifications

Connectors/Headers	Display	1x DP 1x LVDS 30-pin header
	Audio	3-in-1 Mic/Line-in/Line-out
	Network	2x RJ45
	USB	2x USB 3.0 Type A 2x USB 2.0 Type A
	SATA	1x SATA (with power for SATA device)
	Buttons	1x Reset 1x Power 1x Sleep 1x LID
	SD Card Slot	1x SD*
	Mini PCIe Slots	1x Mini PCIe (PCIe, USB) 1x Mini PCIe (PCIe, USB, SATA)
	FAN	1x FAN 4-pin
	GPIO	8x GPIO 8-pin header
	Serial	2x UART, DB9
	Management Buses	SMBus, I2C, LPC headers
	Secondary BIOS	1x Socket for secondary SPI flash
	LEDs	POST LED
Power	Input	19V+/-5% DC
	Connector	DC Jack
Operating Systems	Standard Support	Windows 10 / Yocto / Ubuntu

Ordering Information

Development Kit	Description/Configuration
nanoX-EL-x6211E-2G-Kit	COM Express Type 10 Prototype Kit with nanoX-EL-x6211G-2G, miniBase-10R carrier, heatspreader, 110/220V to 19V Adapter and necessary enabling parts

* optional, subject to the module used

