ADLINK
LEADING EDGE COMPUTING



COM Express
SMARC
Qseven
ETX

Intel Bay-Trail Computer on Modules

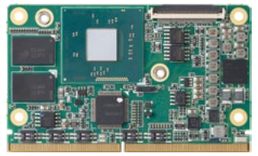
Product Brochure

COM Express
SMARC module
Qseven
ETX®

March 2024

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Intel Bay-Trail

Model Name	Q7-BT	LEC-BT / BTS	ETX-BT
			
SoC	Intel Atom® E3800 series	Intel Atom® E3800 series	Intel Atom® E3800 series Intel Celeron® series
Memory	Up to 4 GB DDR3L at 1066/1333 MHz	Up to 8GB Dual Channel DDR3L at 1066/1333 MHz	Up to 8GB DDR3L SO-DIMM at 1333/1066 MHz
Cache	512 kB to 2 MB L2 cache	512 kB to 2MB L2 cache	512 kB to 2MB L2 cache
BIOS Type	AMI UEFI BIOS	AMI UEFI	AMI UEFI
TPM	-	-	TPM 1.2
Integrated Graphics	Intel® HD Graphics (Gen 7) supporting two independent displays	Intel® HD Graphics (Gen 7) supporting two independent displays	Intel® HD Graphics (Gen 7) supporting two independent displays
Graphics Features	Support for DirectX11 | OpenGL 3.0 | OpenCL 1.2 | OpenGLES 2.0 | full HW acceleration for decode/encode of MPEG2, H.264 | dual simultaneous display support HDMI 1.4b/DP 1.2a, dual channel LVDS (18/24bit) or eDP1.4	Support for DirectX11 | OpenGL 3.0 | OpenCL 1.2 | OpenGLES 2.0 | full HW acceleration for decode/encode of MPEG2, H.264 | dual simultaneous display support HDMI 1.4b/DP 1.2a, dual channel LVDS (18/24bit) or eDP1.4	Display output at VGA/LVDS (LVDS via eDP to LVDS IC)
Camera	-	1x MIPI CSI 4 lane camera	-
LAN	Intel® i210-IT 1GbE PCIe	Intel® i210-IT 1GbE PCIe	Intel® i210 Supporting 10/100 Mbps (GbE via onboard connector)
USB	1x USB 3.0, 6x USB 2.0	1x USB 3.0, 3x USB 2.0	4x USB 2.0
SATA / PATA	2x SATA 3 Gb/s	1x SATA 3Gb/s	1x SATA 3Gb/s and 1x PATA (other configuration by build opt.)
PCI Express	3x PCIe x1 Gen2	3x PCIe x1 Gen 2	PCI (via PCIe to PCI IC)
Onboard Storage (opt.)	Onboard eMMC 5.1 (4-64 GB)	Soldered (4-64GB)	SATA SSD (opt.)
Audio	HDA	HDA	HDA Realtek ALC 262 Audio Codec on module
SEMA	Yes	Yes	Yes
Management Bus	-	-	ISA, SMBUS, I²C
UART	-	-	2x UART
GPIO/SDIO	-	-	-
Power Supply	Module Input Voltage: 5.0V Power Pins: 12 pins, 6A at 5V Typical IO Voltage: 3.3V	3.0 V-5.25 V DC ±5%	5V ±5% / 5Vsb ±5% (ATX) 5V ±5% (AT)
Operating Temperature	0°C to 60°C -40°C to 85°C (opt.)	0°C to 60°C -40°C to 85°C (opt.)	0°C to 60°C -40°C to 85°C (standard 12V input, build opt. based on selected SKU)
Form Factor & Compatibility	Qseven 2.0 Size: 70 x 70 mm	SMARC Specifications v1.1 Full size: 82 mm x 80 mm	ETX 3.02 Size: 95 x 114 mm
OS support	yocto PROJECT, Windows	Ubuntu, Windows	Ubuntu, Windows

Intel Bay-Trail

Model Name	nanoX-BT	cExpress-BT	cExpress-BT2
			
SoC	Intel Atom® E3800 series Intel Celeron® series	Intel Atom® E3800 series Intel Celeron® series	Intel Atom® E3800 series Intel Celeron® series
Memory	Up to 4 GB DDR3L soldered down at 1333 MT/s	Up to 8GB DDR3L SO-DIMM at 1333/1066 MHz	Up to 8GB DDR3L SO-DIMM at 1333/1066 MHz
Cache	512 kB to 2MB L2 cache	512 kB to 2MB L2 cache	512 kB to 2MB L2 cache
BIOS Type	AMI UEFI	AMI UEFI	AMI UEFI
TPM	-	TPM 1.2 (opt.)	TPM 1.2 (opt.)
Integrated Graphics	Intel® HD Graphics (Gen 7) supporting two independent displays at DDI/LVDS or eDP	Intel® HD Graphics (Gen 7) supporting two independent displays at DDI/VGA or LVDS	Intel® HD Graphics (Gen 7) supporting two independent displays at VGA/LVDS
Graphics Features	Display output at DDI/LVDS DDI can be DP or HDMI (LVDS via eDP to LVDS IC) eDP (build opt.)	Display output at DDI/VGA DDI can be DP or HDMI LVDS (build opt.)	Display output at VGA/LVDS (LVDS via eDP to LVDS IC)
Camera	-	-	-
LAN	Intel® i210 Supporting 10/100/1000 Mbps	Intel® i210 Supporting 10/100/1000 Mbps	Intel® i210 Supporting 10/100/1000 Mbps
USB	1x USB 3.X/2.0, 3x USB 2.0 1x USB Client (build opt.)	1x USB 3.0/2.0, 6x USB 2.0 (via USB Hub)	7x USB 2.0 (via USB Hub)
SATA / PATA	2x SATA 3Gb/s	2x SATA 3Gb/s	1x SATA 3Gb/s and 1x PATA (other configuration by build opt.)
PCI Express	3x PCIe x1 Gen2 (4x PCIe x1, w/o GbE, build opt.)	3x PCIe x1 Gen2 (4x PCIe x1, w/o GbE, build opt.)	2x PCIe x1 Gen 2 PCI (via PCIe to PCI IC)
Onboard Storage (opt.)	eMMC (opt.)	eMMC (opt.)	eMMC (opt.)
Audio	HDA Audio Codec on carrier	HDA Audio Codec on carrier	HDA Audio Codec on carrier
SEMA	Yes	Yes	Yes
Management Bus	SMBUS, I²C, LPC	SMBUS, I²C, LPC	SMBUS, I²C, LPC
UART	2x UART	2x UART	2x UART
GPIO/SDIO	8x GPIO SDIO (build opt. w/o GPIO)	8x GPIO onboard SD socket	8x GPIO
Power Supply	5-14V / 5Vsb ±5% (ATX) 5-14V (AT)	5-20V / 5Vsb ±5% (ATX) 5-20V (AT)	5-20V / 5Vsb ±5% (ATX) 5-20V (AT)
Operating Temperature	0°C to 60°C -40°C to 85°C (standard 12V input, build opt. based on selected SKU)	0°C to 60°C -40°C to 85°C (standard 12V input, build opt. based on selected SKU)	0°C to 60°C -40°C to 85°C (standard 12V input, build opt. based on selected SKU)
Form Factor & Compatibility	PICMG COM.0 R2.1 Type 10 Mini size: 84 x 55 mm	PICMG COM.0: Rev 2.1 Type 6 Compact size: 95 mm x 95 mm	PICMG COM.0: Rev 2.1 Type 2 Compact size: 95 mm x 95 mm
OS support	yocto PROJECT, Windows	Ubuntu, Windows	Ubuntu, Windows

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