

eDM-COMC-AL6

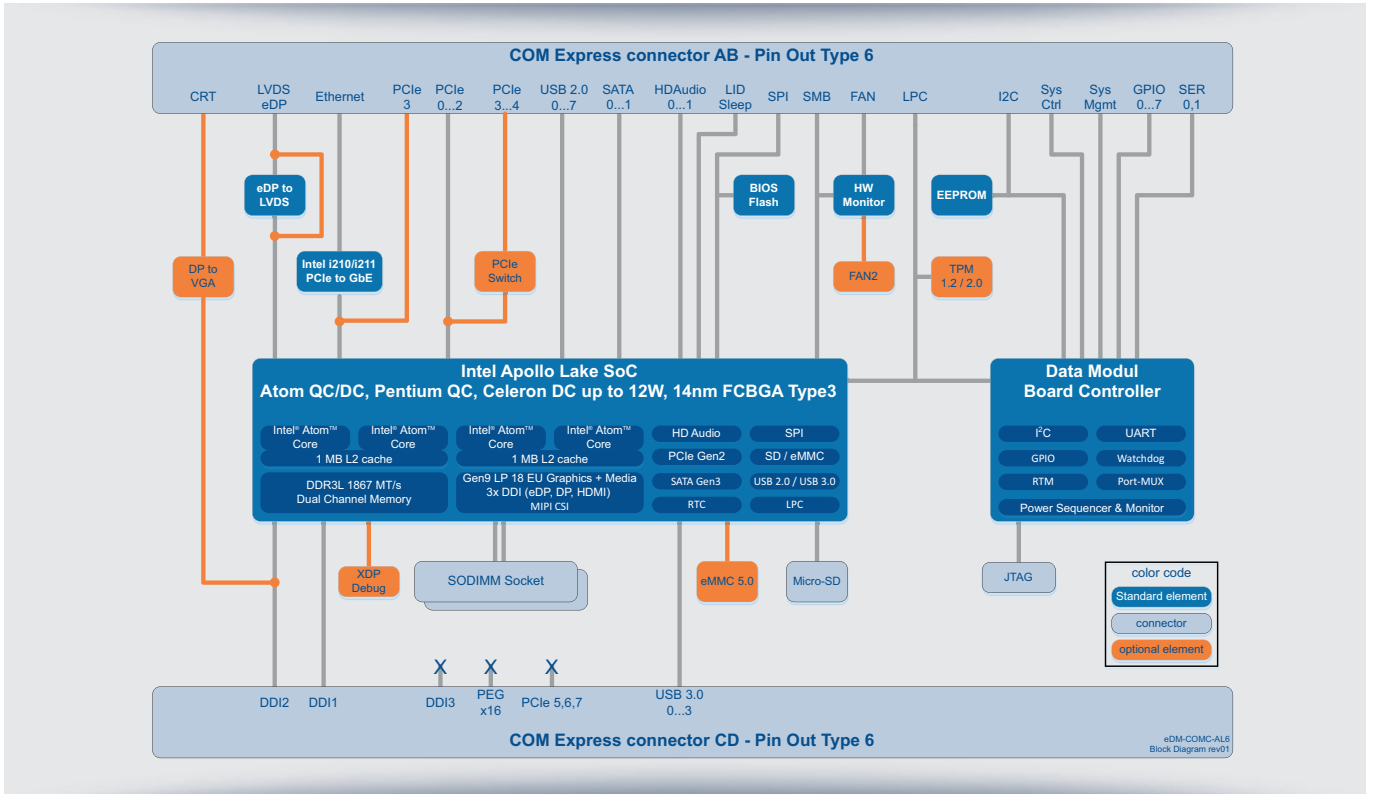
FEATURES

- > COM Express® Compact Size (95 x 95 mm), Type 6 Connector Layout
- > Intel® Pentium® Quad Core CPU (formerly codename Apollo Lake)
- > supports up to 3 independent displays up to 4k resolution
- > high Graphics Performance with passive cooling

TECHNICAL INFORMATION

Formfactor	COM Express™ Compact, (95 x 95 mm), Type 6 Connector Layout
CPU	<p>Intel® Pentium® N4200 2.50 GHz (Burst)/1.1 GHz (Base), QC, 2 MB L2 Cache, TDP 6W Intel® Celeron® N3350 2.40 GHz (Burst)/1.1 GHz (Base), DC, 2 MB L2 Cache, TDP 6W Intel Atom® x5-E3950 2.00 GHz (Burst)/1.6 GHz (Base), QC, 2MB L2 Cache, TDP 12W Intel Atom® x5-E3940 1.80 GHz (Burst)/1.6 GHz (Base), QC, 2MB L2 Cache, TDP 9.5W Intel Atom® x5-E3930 1.80 GHz (Burst)/1.3 GHz (Base), DC, 2MB L2 Cache, TDP 6.5W</p> <p>Supports: Intel® Virtualization Technology (VTx), Intel® 64 Architecture, Advanced Encryption Standard New-Instruction (AES-NI), Verified/Secure Boot, Prevention of cache collision Precision Time Management support (Core Time Stamp Counter & PCIe clock synchronization)</p>
Memory	2 x SO-DIMM Socket: DDR3L up to 8GByte (1866MT/s) dual channel memory
Chipset	Integrated SOC
Graphics	<p>Generation 9 Intel® HD Graphics with OpenCL 2.0, OpenGL 4.2 and DirectX12 support up to 3 independent displays with up to 4k resolution 4 Vector Unit Image Processing, Video Decode/Encode: 4k for HEVC, H.264, VP9</p>
Display Interfaces	<p>2 x DDI (DP++, HDMI, DVI) /up to 4k resolution 1 x VGA (optional) 1 x Dual Channel 24 Bit LVDS up to 1920 x 1200 Pixel (optional eDP 1.3)</p>
Ethernet	Intel® I210 (industrial)/i211 (commercial) GbE LAN Controller with SDP support
I/O Interfaces	<p>4x USB 3.0 (XHCI), 8 x USB 2.0 (EHCI), 2 x UART (COM1/2) 5x PCIe Gen 2.0 (5GT/s) 2 x SATA III (6Gb/s) LPC Bus/TPM1.2/TPM2.0/GPIOs/SMB 2.0/I²C Bus SPI for onboard/external Flash Intel HD Audio Micro-SD Card socket (optional) eMMC 5.0 onboard flash up to 64 GByte (optional)</p>
DM Board Controller	Multi Stage Watchdog, UART, GPIO, I²C Bus, RTM, Port-Mux, Manufacturing and Board Information, Power Sequencer & Monitor
Power Type	VCC: +12 V (+/-5%), 5V_SB: 5V (+/-5%), Mode: ATX Mode, VCC only without 5V_SB
Operating Systems	Microsoft® Windows 10 (64bit), Microsoft® Windows 10 IoT Enterprise (64bit), Linux (Yocto)
Security	Optionally Trusted Platform Module: TPM 1.2 /TPM 2.0
Operating Temperature	<p>Operating: 0°C ... +60°C (commercial), Storage: -20°C ... +80°C Operating: -40°C ... +85°C (industrial), Storage: -20°C ... +80°C</p>
Humidity Operating	Operating: 5 - 90% RH non-condensing, Storage: 5 - 95% RH non-condensing

BLOCK DIAGRAMM



ORDERING INFORMATION

Model Name	Part Nr.	Description
eDM-COMC-AL6-N4200	12024773	COM Express Type 6 Compact module with Intel® Pentium® N4200
eDM-COMC-AL6-N3350	12024772	COM Express Type 6 Compact module with Intel® Celeron® N3350
eDM-COMC-AL6-E3950	12024769	COM Express Type 6 Compact module with Intel Atom® x5-E3950, -40°C to 85°C
eDM-COMC-AL6-E3940	12024770	COM Express Type 6 Compact module with Intel Atom® x5-E3940, -40°C to 85°C
eDM-COMC-AL6-E3930	12024771	COM Express Type 6 Compact module with Intel Atom® x5-E3930, -40°C to 85°C

Accessories

eDM-COMC-AL6-CH	12024774	Standard Cooling Heatspreader, for Pentium/Celeron SOC
eDM-COMC-AL6-CP	12024775	Standard Cooling Solution passiv, for Pentium/Celeron SOC
eDM-COMC-AL6-eCP	12024776	Standard Cooling Solution passiv, for lidded ATOM SOC
eDM-COMC-AL6-eCH	12024777	Standard Cooling Heatspreader, for lidded ATOM SOC

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