

SBC-pITX-APL

Pico-ITX SBC with the Intel® Atom® X Series, Intel® Celeron® J / N Series and Intel® Pentium® N Series (Codename: Apollo Lake) Processors

x86 solution designed for IoT edge computing in harsh environments



HIGHLIGHTS

Intel® Atom® X Series, Intel® Celeron® J / N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors



CONNECTIVITY

2x GbE; M.2 WWAN and WLAN slots; 8x GPI/Os



GRAPHICS

Integrated Intel® HD Graphics 500 series controller with up to 18 Execution Units



MEMORY

Up to 8GB LPDDR4 memory







(i) Available in Industrial Temperature Range







up to 3840x2160 @ 30Hz



MAIN FIELDS OF APPLICATION









Safety & Surveillance

Digital Signage

Transportation

┌ Video

Energy & Utilities

HDMI®:

FEATURES

Intel® Atom® x5-E3930 Dual Core @1.3 GHz (Burst 1.8GHz), 2MB L2 Cache, 6.5W TDP Intel® Atom® x5-E3940 Quad Core @1.6 GHz (Burst 1.8GHz), 2MB L2 Cache, 9.5W TDP Intel® Atom® x7-E3950 Quad Core @1.6 GHz (Burst 2.0GHz), 2MB L2 Cache, 12W TDP Intel® Pentium® N4200 Quad Core @1.1GHz (Burst 2.5GHz), Processor 2MB L2 Cache, 6W TDP Intel® Celeron® N3350 Dual Core @1.1GHz (Burst 2.4GHz), 2MB L2 Cache, 6W TDP Intel® Celeron® J3455, Quad Core @1.5GHz (Burst 2.3GHz), 2MB L2Cache, 10W TDP Intel® Celeron® J3355, Dual Core @2.0GHz (Burst 2.5GHz), 2MB L2Cache, 10W TDP Max Cores Max Thread 4 32-bit Single-/Dual-/Quad-Channel LPDDR4 soldered on-Memory board, up to 2400 MT/s Max memory size 8GB Integrated Intel® HD Graphics 500 series controller with up to 18 Execution Units Three Independent displays supported HW decoding of HEVC(H.265), H.264, MVC, VP8, VP9, MPEG2, Graphics VC-1, WMV9, JPEG/MJPEG formats HW encoding of HEVC(H.265), H.264, MVC, VP8, VP9 and JPEG/MJPEG formats HDMI® connector Video Interfaces Optional DP++ connector (combo with HDMI®) LVDS connector

<u>-1-21</u>	Resolution		up to 4096x2160 @ 60Hz up to 1920x1200 @ 60Hz
9	Mass Storage	SATA Gen3 7p SSD M.2 Socke WWAN modules	t 2 Key B lot, size 2260 / 3042 (excludes
靐	Networking	WWAN (modern (excludes SSD i	thernet connectors N. A. Socket 2 Key B 2260 / 3042 slot Interface) 2 Socket 1 Key E 2230 Slot for WiFi+BTLE
•	USB		pe-A connector) Dual pin header
	Audio	HD Audio Code Line Out + Micro pin header	c ophone + S/PDIF Out interfaces on internal
- <u>-</u> -	Serial Ports	2 x RS-232/RS- header	422/RS-485 Serial ports on internal pin
	Other Interfaces	8 x GPI/Os conr FAN connector Switch / LED Fro	ont Header connector BT# signals for I2C Touch Screen controller on r
	Power Supply	+12V _{DC} Cabled coin cel	l battery for RTC



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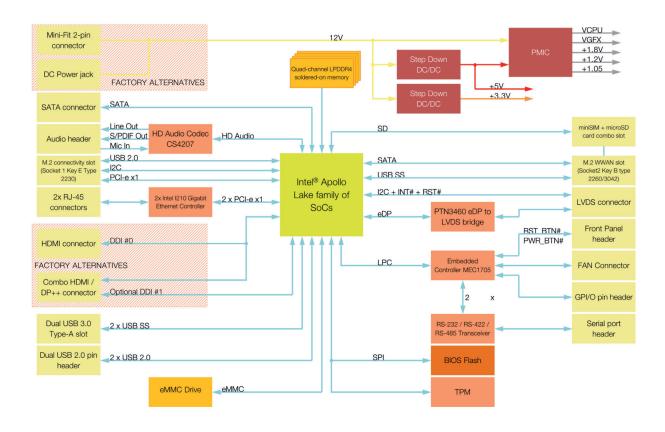
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FEATURES

<u>os</u>	Operating System	Windows 10 Enterprise (64-bit) Windows 10 IoT Core (32- / 64-bit) WindRiver Linux 64-bit Yocto (64-bit) Android (planning)
	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (industrial version)
L	Dimensions	100 x 72 mm (3,93" x 2,83")

*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

BLOCK DIAGRAM





Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust Al-based protection.

DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

DEVICE MANAGER

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



Scan to know more about our solution

EDGEHOG OS



CLEA DOCS



