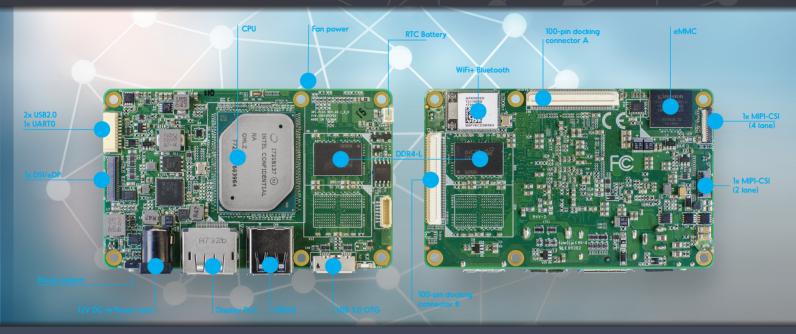


specification



UP Core Plus is a credit card-sized board with high performance and low power consumption which features of the latest the Intel® Atom™ x5 / x7 / Celeron / Pentium processor 64 bits up to 2.5 GHz.

The internal GPU is the latest Intel Gen 9 HD 500 with up to 18 Execution Units up to 650MHz to deliver extremely high 3D graphic performance.

UP Core Plus is equipped with 2GB/4GB/8GB DDR4L RAM at 2.400 MHz and 32GB/64GB/128 eMMC. On board there are are a wide variety of features amd I/O including USB 3.0 Host + OTG, UART on USB header, WiFi, Bluetooth, DSI, MIPI-CSI, Display Port 4K and more!

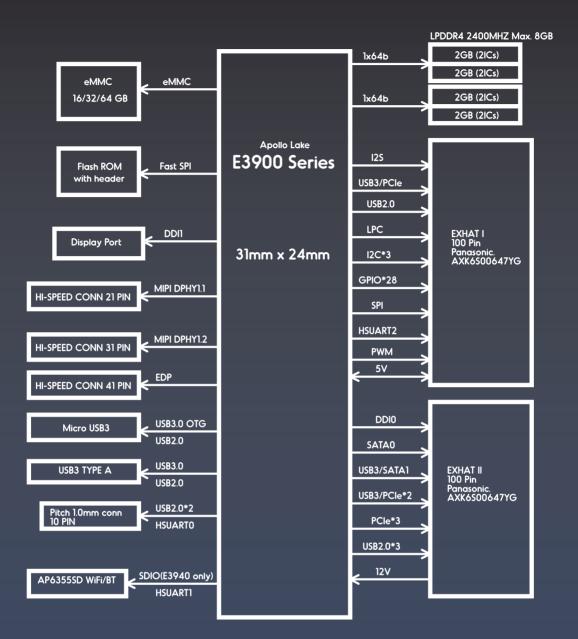
On the bottom of the board 2 x 100-pin high speed docking connectors provide the freedom to users to design their carrier board. The pin definition of 100-pin connector A is fully compatible with UP Core.

It's UP to you to choose which operation system is best for your application. The CPU is supported by Microsoft Windows 10 Professional and IoT Core and you can download Linux Ubuntu, Linux Debian, Linux Yocto, Android 6.0 through our UP Community.

UP Core Plus is available at industrial temperature range which makes it perfect for industrial application in harsh environment.

UP Core Plus - Specifications			
(intel)	SOC Intel® Atom™ x5-E3930 (2M Cache, up to 1.8 GHz) Intel® Atom™ x5-E3940 (2M Cache, up to 2.00 GHz) Intel® Atom™ x7-E3950 (2M Cache, up to 1.8 GHz)	—US B	USB 1x USB 3.0 Host 1x USB 3.0 OTG 2x USB 2.0 pin header
	Graphics Intel® HD 500 Graphics / x5-3900 Series Intel® HD 505 Graphics / x7-3900 Series	((->))	WiFi / BT WiFi 802.11 AC 2T2R Bluetooth 4.2 (BLE)
	Memory 2GB / 4GB / 8GB onboard LPDDR4 Storage Capacity 32GB / 64 GB / 128 GB eMMC		Expansion 2x Docking Connector 100 pin including: USB 2.0, USB 3.0, 6 PCI-E Lane, SATA, I2C, I2S, SPI, PWM, LPC, SDIO, HSUART, ISH, CPIO
-	Video & Audio 1x DP 4K 60Hz 1x Full eDP Audio via DP and I2S (from Docking)	iii Windows10	Compatible Operating system Microsoft Windows 10 Professional, Microsoft Windows 10, IoT Core, Linux (Ubuntu, Yocto), Android 7.0
0 ⁻	Camera interface 1x MIPI-CSI 2 Jane 1x MIPI-CSI 4 Jane Operating humidity 10%~80%RH non-condensing		Power 12V DC-in @ 4A -6A 5.5/2.1mm jack Dimensions
	Operating humidity 10%~80%RH non-condensing Operating Tempature 132-140°F / 0-60°C	ע ₪ גר פוק© Reach	56 mm × 90 mm Certificate CE/FCC Class B, RED, RoHS complaint, REACH
	errest and the second s		

block diagram



carrier boards



Low speed carrier board



High speed carrier board (limited support)



Net Plus

Mic



AI Plus

The "Android" name and the Android logo are property of Google Inc. Microsoft and Windows are either registered trademarks or trademarks or Microsoft Corporation in the United States and/or other countines. Intel, the Intel logo, Intel Insider, Intel SpeedStep, and Atom are trademarks of the Corporation in the United States and/or other countines. At rights reserved UP Bradge The Gaps 1 Trademark of Aceon Unitope Alt Rights reserved



Vision Plus X-

notice: All specifications, features and data are subject to change.

For more information, pin layout and advanced carrier compatibility overview, please visit our website

Part number UPC-PLUSX5D-A20-0232 UPC-PLUSX5D-A10-0232

Atom® x5-E3930, 2GB RAM & 32GB eMMC UPC-PLUSX5Q-A20-0464 Atom® x5-E3940, 4GB RAM & 64GB eMMC Atom® x5-E3930 2GB RAM & 32GB eMMC

UPC-PLUSX7-A20-0864 LIPC-PI LISX7-Δ20-08128 Atom® x7-E3950, 8GB RAM & 64GB eMMC Atom® x7-E3950, 8GB RAM & 128GB eMMC