UP Xtreme— the first Intel® Core™ platform from the UP family. With a measure of just 120mm x 122mm, UP Xtreme delivers a comprehensive set of features and I/O which allows you to reach astonishing performance rates of up to 4.4GHz and turbo clock frequency in just 15W.

With UP Xtreme we have consolidated the best I/O features from previous UP boards. The 40-pin GP-bus from UP board, mPCIe M.2 expansion from UP Squared and 100 pin expansion from UP Core Plus have all been utilized. Powered by Intel® 8th Core™ processors (code name: Whiskey Lake), UP Xtreme is aimed at industrial, IoT, automation, robotics industries and much more.

The addition of a 12-60V-power input, a lockable power connector and TSN networking chip has enabled UP Xtreme to be expandable as well as industrial. UPscaling any application that needs more CPU power, memory capacity and rich I/O’s is all possible thanks to the extreme performance of UP Xtreme. Dubbed as the Ferrari of the UP family, the power of UP Xtreme goes up to 4.4 Ghz, ensuring that you’ll never have to complain of having low CPU power. You’ll also never feel that it’s not smart enough as it is capable of expanding up to 6x Intel® Movidius™ Myriad X VPU. It boasts optional connectivity via WiFi, Bluetooth, LTE and LoRA. The possibilities are stretched to the extreme.

**SPECIFICATIONS**

| CPU | Intel® 8th gen Dual/Quad Core Ultra Low Power 15W
| Memory | Onboard Dual Channel DDR4 memory, Max 16GB
| Graphics | Intel® UHD Graphics 620
| Storage | 1x SATA Connector with power connector
| Expansion Slot | 1x Mincard (1x PCIe x1 option mSATA), 1x USB2.0) with SIM
| Ethernet | 1x M2 (2230 E key) (1x PCIe x1), 1x USB2.0), 1x M2 2280 B/M Key (2x PCIe / 2x SATA)
| Audio | ALC887 for Audio Out/Mic In, I2S
| USB | 4x USB3.0, 2x USB2.0
| COM Ports | Fintech FB1801, 2x RS232/422/485
| Expansion HAT (40pin) | By MAX5: 28xGPIO, 2xSPI, 2x I2C, 1x ADC, 1x I2S, 1x UART, 3V3, 5V, GND
| Docking Connector (100pin) | 12V, GND
| Power | 12–60V DC-IN (lockable connector) 1x Power Button / LED
| Form Factor | 120 mm x 122 mm
| Operating Temperature | 0 - 60°C
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing
| Certification | CE, FCC
| OS Support | Win 10, Linux (Ubuntu, Yocto), Android
Artificial Intelligence on the edge

Expand your UP Xtreme board for fit your exact needs

NetPlus
Intel® 9260 WiFi Kit
Vision Plus X

www.up-board.org/ www.up-shop.org /www.up-community.org