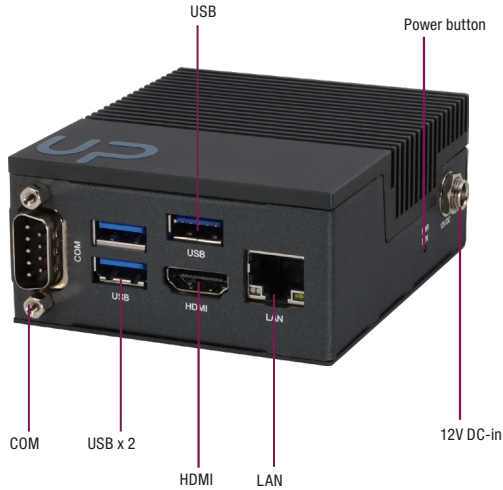


UP TWLS Edge PRELIMINARY



UP TWLS System with Intel® Processor N-series Processor (formerly Alder Lake N)

Front View



Rear View



Features

- Intel® Processor N-series
- Onboard LPDDR5 Memory, up to 8GB
- Onboard eMMC Storage, up to 64GB
- 1 GbE LAN x 1
- HDMI 1.4b x 1
- USB 3.2 Gen 2 (Type-A) x 3
- 12V DC-in, 5A
- TPM 2.0
- M.2 2230 E-Key
- GPIO x 8, COM x 1



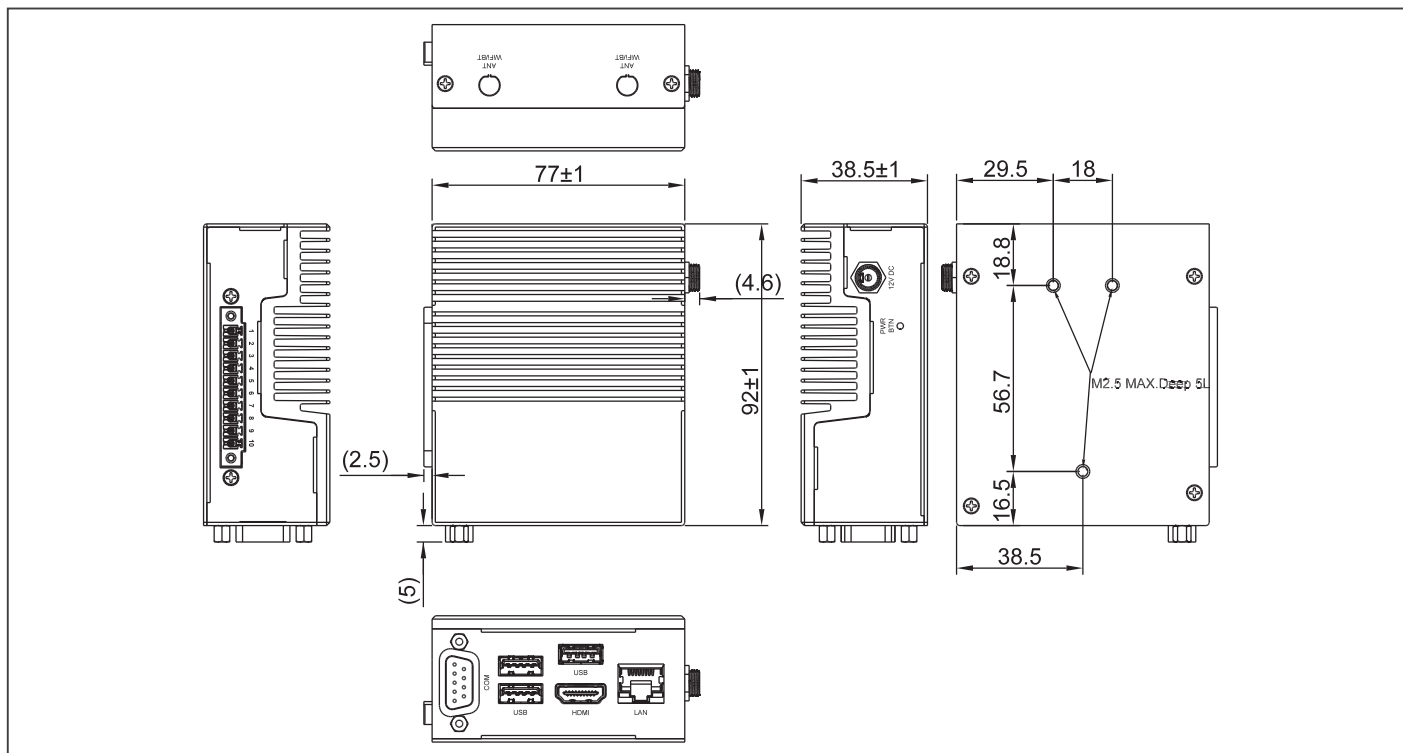
Specifications

System	
CPU	Intel® Core™ 3 Processor N355 Intel® Processor N250 Intel® Processor N150 (formerly Twin Lake)
Memory	Up to 8GB LPDDR5
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Storage	Up to 64GB eMMC
Ethernet	1GbE RJ-45 x 1
WiFi/BT	Optional with M.2 2230 E-key x 1
Expansion Slot	M.2 2230 E-Key x 1 (PCIe x1, USB2.0 x1)
Security	Onboard TPM 2.0
OS Support	Microsoft Windows 10/11 Ubuntu 22.04 LTS Yocto 5.1
I/O Placements	
USB	USB 3.2 Gen 2 (Type-A) x 3
Display Port	HDMI 1.4b x 1
Ethernet	1GbE RJ-45 x 1
COM	RS-232/422/485 x 1
Audio	—
GPIO	GPIO x 8 (Optional: PWM x 1, I2C x 1, SPI x 1; by project base, please contact AAEON sales)
Power Supply	
Power requirement	12V DC-in, 5A
Power supply type	AT/ATX
Power Consumption (Typical)	30W~36W
Mechanical	
Mounting	DIN Rail, VESA
Dimensions (WxHxD)	3.62" x 3.03" x 1.51" (92mm x 77mm x 38.5mm)
Net Weight	0.67 lb. (0.30Kg)
Gross Weight	0.78 lb. (0.35Kg)
Environment	
Operating Temperature	23°F ~ 140°F (-5°C ~ 60°C) with 0.5m/s air flow
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
MTBF	685,218
Certification	CE/FCC Class A, RoHS Compliant, REACH



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Core	Memory	Storage
UP-EDGE-TWL02N150-A10-0864	Intel® Processor N150	4	8GB	64GB

Optional Accessories

Part Number	Description
1255X00032	(TF)AC/DC Adapter.Input AC.100~240V.Output DC.12V.MAX 72W.6.0A.180D.W/ LOCK.EDAC. EA10681U(120)
170X000799	(TF)Power Cord. 3P. 125V. 10A. 180D. USA. 1. 8M. I-SHENG. SP305B/IS-14N SVT 18/3 60CT-12 Black
170X000800	(TF)Power Cord. 3P. 250V. 10A. VDE. 1. 8M. I-SHENG. SP23/IS-14N H05VV-F 3G 0.75 CT-12 Black
170X000815	(TF)Power Cord. 3P. 250V. 10A. 180D. CHINA. 1. 8M. I-SHENG. SP506A/IS-14N RVV 300/500V 3X0.75 CT-12 Black
170X000806	(TF)Power Cord. 3P. 125V. 7A. 1. 8M. I-SHENG. U4NCB3T6B1218002. SP305B/IS-14N VCTF. Black. BSMI
170X000803	(TF)Power Cord.3P.125V/7A.PSE Certificate.1.8M.I-SHENG.U4NCB3P6C1218002.SP305B/IS-14N VCTF 0.75/3 Black 1.8M
170X000810	(TF)Power Cord.3P.250V.16A.Korea.1.8M.I-SHENG.SP23/IS-14N H05VV-F 3G 0.75 CT-12 Black
170X000805	(TF)Power Cord.3P.250V.10A.SWISS.1.8M.I-SHENG.SP-027C/IS-14N H05VV-F 3G 0.75mm CT-12 Black
9651210000	Wireless LAN Kit M.2 2230 802.11ax/ac/a/b/g/n + BT5.2,2.4G/5G/6G,with 2 sets of cable & antenna (Intel AX210)
9651885200	Wireless LAN Kit M.2 2230 802.11ax/ac/a/b/g/n + BT5.2,2T2R,with 2 sets of cable & antenna (Enl.Enl-8852CE)
170010015G	(TF)USB Cable.10P 1.0mm Housing.USB A(F). 15cm
UP-ASL02VESAKIT-A10-0001	VESA KIT for UP-EDGE-ASL02
UP-DRKIT-A10-0001	DIN Rail KIT for UP Series

Packing List

- UP TWLS Edge