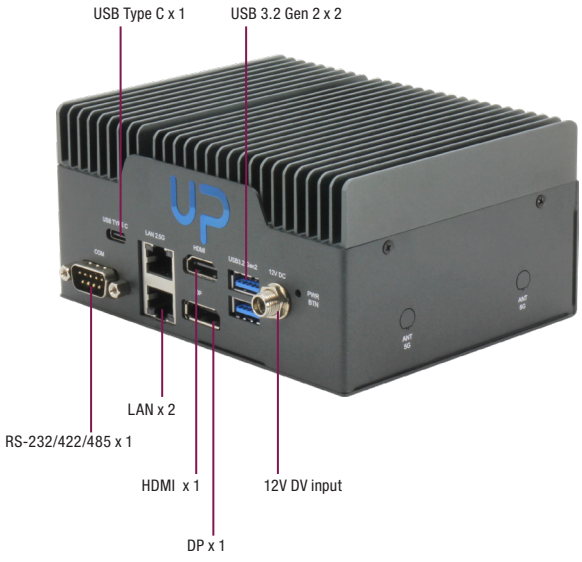
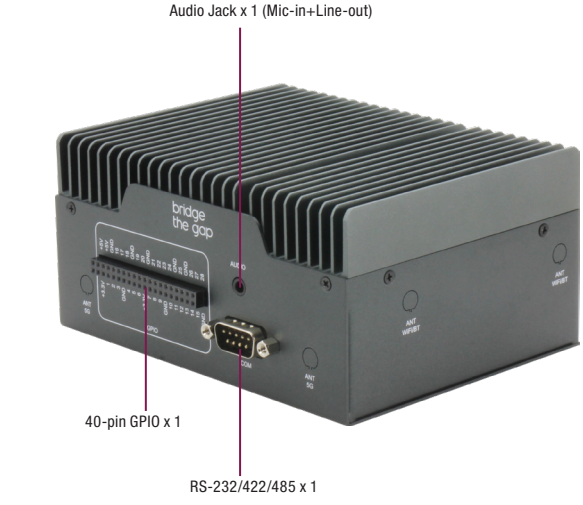
UP Squared Pro TWL Edge

UP Squared Pro TWL System with Intel® Processor N-series, and Intel® Core™ i3-N355 Processor (formerly Twin Lake)





Features

- **Intel® Processor N-series, and Intel® Core™ i3-N355 Processor (formerly Twin Lake)**
- **Onboard LPDDR5 Memory up to 16GB**
- **Onboard eMMC Storage up to 64GB**
- **2.5GbE x 2 (Intel® I226-IT)**
- **USB 3.2 x 3 (Type A x 2, Type C x 1)**
- **40 pin GPIO x 1**
- **DP 1.2 x 1/DP 1.4a x 1/HDMI 2.0b x 1**
- **RS-232/422/485 x 2**
- **M.2 2230 E-Key/M.2 2280 M-Key/M.2 3052 B-Key x 1**
- **SATA 6Gb/s x 1**
- **TPM 2.0**
- **12V DC-in, 6A**

Specifications

System	
CPU	Intel® Core™ 3 Processor N355 Intel® Processor N250 Intel® Processor N150 (formerly Twin Lake)
Memory	Up to 16GB onboard LPDDR5
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Storage	Up to 64GB onboard eMMC
Ethernet	2.5GbE x 2 (Intel® I226-IT)
WIFI/BT	Optional with M.2 2230 E-key x 1
Expansion Slot	M.2 2230 E-Key x 1 (CNVI, PCIe Gen 3 [x1]) M.2 2280 M-Key x 1 (PCIe Gen 3 [x2], USB 2.0) M.2 3052 B-Key x 1 (USB 3.2 Gen 2) with Nano SIM slot (USB 3.0) SATA 6Gb/s x 1
Security	Onboard TPM 2.0
OS Support	Windows® 11 LTSC Ubuntu: 24.04 LTS Yocto: 5.1
I/O Placements	
USB	USB 3.2 Gen 2 x 2 (Type-A) USB 3.2 Gen 2 x 1 (Type-C)
Display Port	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.4a via USB Type C
Ethernet	2.5GbE x 2 (Intel® I226-IT)
COM	RS-232/422/485 x 2
Audio	Audio Jack x 1 (Mic-in+Line-out)
GPIO	40 Pin GPIO x 1
Power Supply	
Power requirement	12V DC-in (Lockable plug)
Power supply type	AT/ATX (ATX as default)
Power Consumption (Typical)	26W~35W
Mechanical	
Mounting	Optional: Wallmount, 75 x 75 VESA, DIN Rail
Dimensions (WxHxD)	5.27" x 4.13" x 2.56" (134mm x 105mm x 65mm)
Net Weight	2 lbs (0.95kg)
Gross Weight	2.8 lbs (1.3kg)
Environment	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) / 0.7 airflow
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
MTBF (Hours)	422,053
Certification	CE/FCC Class A, RoHS Compliant, REACH

Note: All specifications are subject to change without notice.

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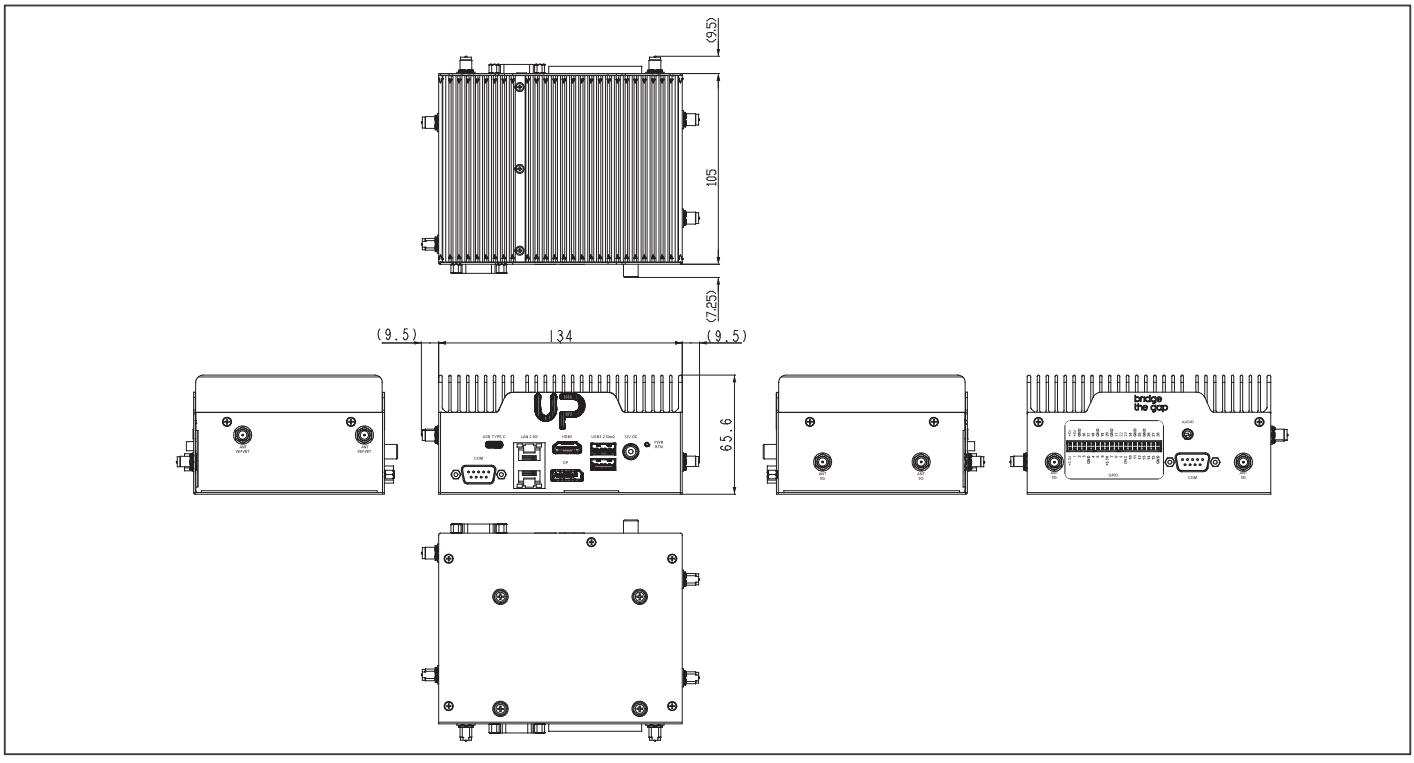
Dimension

Unit: mm



Ordering Information

Part number	CPU	CORE	MEMORY	STORAGE	HEATSINK
UPN-EDGE-TWLN150-A10-0864	Intel® Processor N150	4 Core	8GB	64GB	FANLESS

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)
170X000800	(TF)POWER CORD.3P-250V 10A 180D.1.8M.VDE.FAN-JET.YP-22/YC-12 (for EU)
170X000799	(TF)POWER CORD.3P-125V 10A 180D.1.8M.USA.FANJET.YP12/YC-12 (for USA)
170203180J	(TF)Power Cord.3P.250V 10A.UK type.1830mm (for UK)
170X000803	(TF)Power cord.3P.125V/7A.1.8M.PSE YP12/YC12 Certificat (for Japan)
170X000815	(TF)POWER CORD.3P(M).3P(F).1.8m.250V 10A 180D.CHINA.FAN-JET.YP-03/YC-12 (for China)
170X000806	(TF)Power Cord.3P-125VP.7A.180D.1.8M.TWN/BSMI.FANJET.YP-12/YC-12 (for Japan)
9651926001	M.2 2230 WiFi Kit.802.11ac.2.4G/5G,W/BT w/2 cable & antenna
9741364A00	Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT4.0,2T2R,with 2 sets of cable & antenna
UP-SATAKIT-A10-0001	SATA KIT for UPN-EDGE-APL01/UPN-EDGE-EHL01/UPN-EDGE-ADLN01
M0NADN0060	Wallmount/VESA75x75/DINrail bracket for UPN-EDGE-ADLN01

Packing List

- **UP Squared Pro TWL Edge**