

Features

APLEX's ACS-330 embedded edge controllers deliver high performance and flexibility, supporting PCIe, SATA, and optional UART for WiFi, 5G, and storage with cableless. ACS-330 provide reliable edge solutions, bridging the gap between OT and IT.

- Intel Alder Lake-N processors (N97) with 8GB DDR5 memory, up to 32GB.
- Wide power input range (9~36V DC)
- Wide operating temperature range (-20~60°C / -4~140°F)
- Expansion flexibility, 1 x Mini-PCIe 3027/3051, 2 x M.2 slots
- Dual 2500 BASE-T Ethernet supports Time-Sensitive Network (TSN) technology
- Dual Display (1 x HDMI, 1 x DP) supports multiple display configurations
- Versatile connectivity with 2 x RS-232/422/485 ports
- Onboard TPM 2.0 provides hardware-based security
- Modular design for optional extension boards

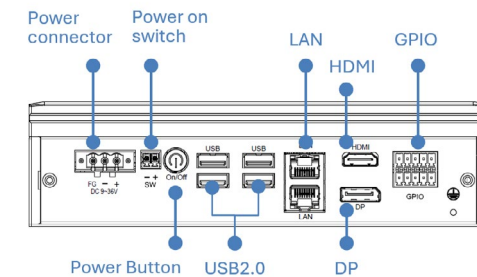
Specifications

System	
Processor	Intel Processor N97 (4-core, 6MB-cache, 12W-TDP)
Memory	1 x DDR5 SO-DIMM Non-ECC slot, supporting 8GB up to 32GB capacity at 4800MT/s.
Storage	1 x M.2 B+M Key 2242 (SATA interface)
MISC. Function	1 x SMBus Wafer Header 1 x I2C Interface (M.2 Connector)
Security	TPM 2.0 onboard

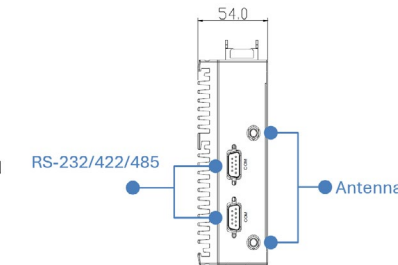
General	
Certification	CE, FCC Class A, UKCA, LVD, RoHS, UL 61010-2-201
Dimension (WxHxD)	200 x 55 x 140 mm
Mounting	Wall Mount, Din-Rail
Weight (Net)	2.5 kg
Power Requirement	DC 9~36V
OS Support	Windows 10, Windows 11 22'H2, Linux Ubuntu 20.04/22.04

I/O Interface	
USB	4 x USB 2.0 (Type-A on front-side)
LAN	2 x 2500 BASE-T ethernet ports (RJ-45)
Serial port	2 x RS-232/422/485 (BIOS selectable)
Display	1 x HDMI 2.0b (up to 4K @60Hz, HDCP 2.2) 1 x DisplayPort 1.4 (up to 4K @60Hz, VDSC 1.1, HDCP 2.2, MST)
GPIO	8 x GPIO (4-IN/4-OUT, 3.3V / 5V hardware-selectable)
Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in (Option)
Button	1 x Power Button 1 x Switch Connector
Indicator	1 x Power LED
Expansion Slots	1 x Mini PCIe 3027/3051 (Wi-Fi module) 1 x M.2 B-Key 3042/3052 (4G/5G module)

Front I/O



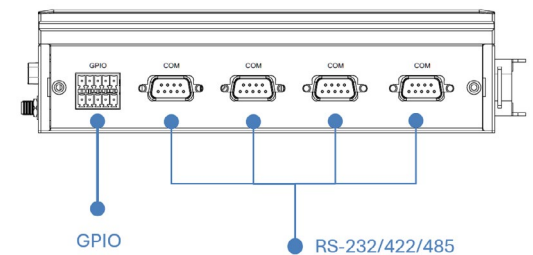
Top I/O



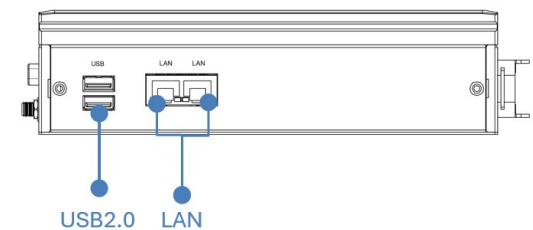
Rear View (standard)



Rear I/O (with extension card)



Rear I/O (with extension card)



Operating Environment

RoHS	RoHS Compliant
Operating Temperature	-20°C~60°C (default) -30°C~70°C (optional)
Storage Temperature	-40°C~85°C
Humidity	95% RH @ 40 °C/104 °F
Shock Protection	Operating, IEC 60068-2-27, 50G, half sine, 11ms
Vibration Protection	Operating, IEC 60068-2-64, 2 Grms, random, 5~500 Hz, 1hr/axis
Ingress Protection	IP20

Optional Expansion Card

UART/ GPIO	UART: 4 x RS-232/422/485 (BIOS selectable) GPIO: 8 x GPIO (4-IN/4-OUT, 3.3V / 5V hardware-selectable)
USB/ LAN	2 x USB 2.0 (Type-A) 2 x LAN ports (RJ-45)

*Supports one of the two expansion slots (selectable configuration)

Ordering Information

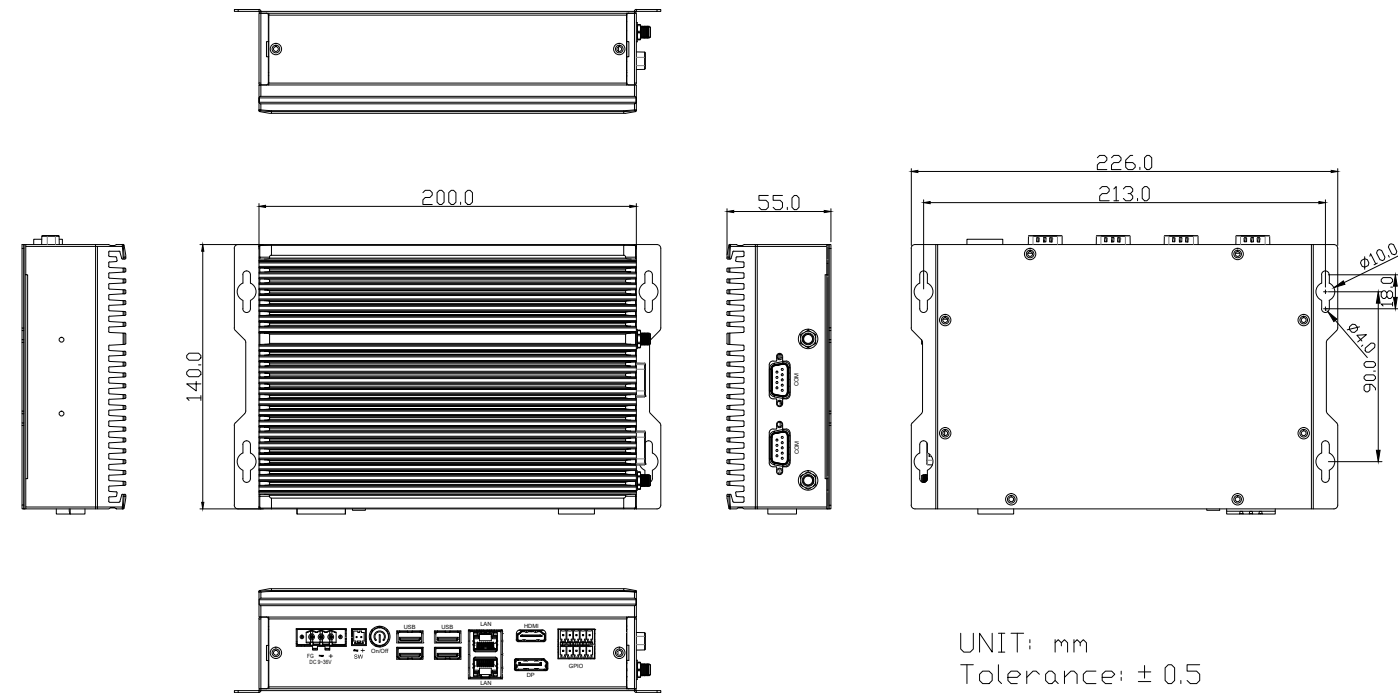
Part Number	Descriptions
E29461000280601G	2P, Pitch 3.81mm, 300V, 8A
E29090000390002G	1 x PHOENIX CONN/PH 5.08 3P
E29091500580600G	2 x 3.5mm 1x5P, Green, 5P

Optional Accessories

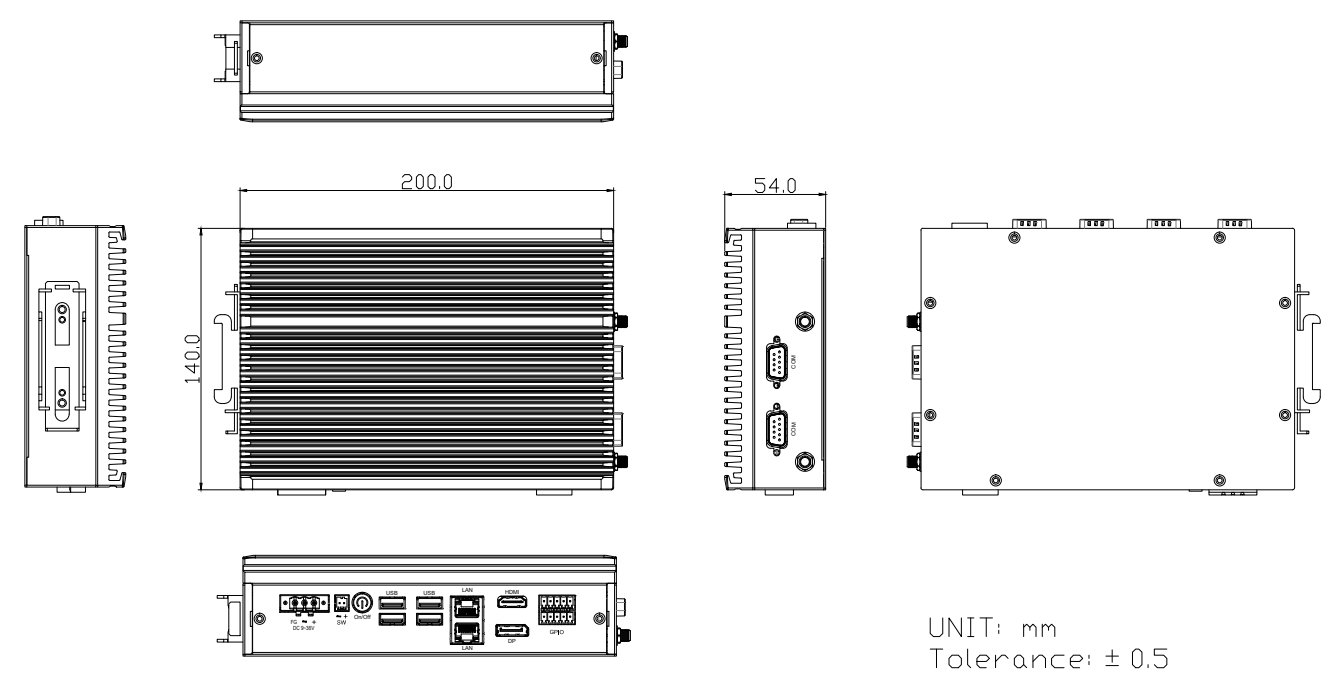
Part Number	Descriptions
7114010120060102	1 x Adapter, DC 12V, 60W
2502003018000000	1 x AC Power Cord
6602755701500000	2 x RP SMA PLUG, Wi-Fi 6, 6E Band
6491000051000101	1 x 4G LTE, M.2 B-Key, 3042, GNSS, Global
6491005201000100	1 x 5G LTE, M.2 B-Key, 3052, Global, 5GSUB6, GNSS
3440121321283000	1 x M.2 B+M Key, 2242, SATA3, TLC, 128GB
6490972031000000	1 x mPCIe Wi-Fi 6 Module (Wi-Fi 6E) + Bluetooth
3251008560020001	1 x DDR5, SO-DIMM, 16GB

Dimensions

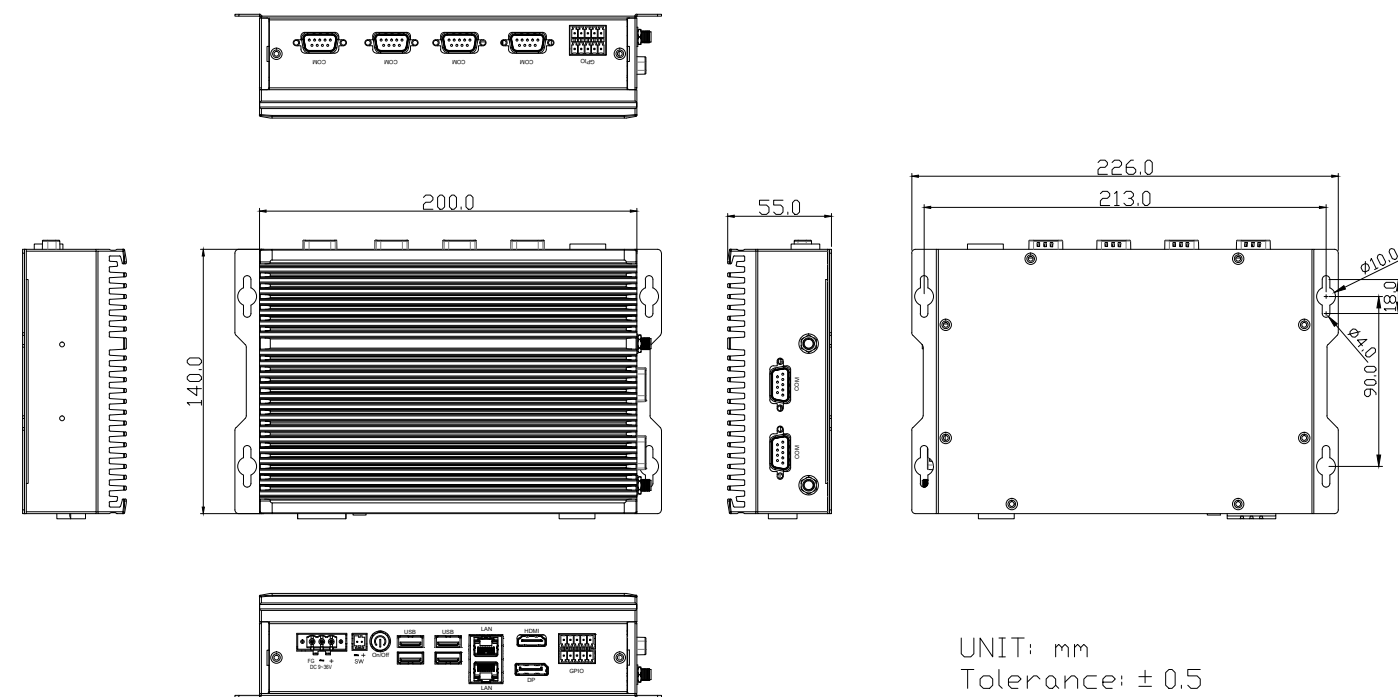
Wall Mount



DIN Rail



Wall Mount With Optional Card



DIN Rail With Optional Card

