UNO Smart Industrial
Edge PC & Gateway

Models C-UNO2271-W10EDG-1, C-UNO2271-2

B+B SMARTWORX

Powered by **ADVANTECH**

www.advantech-bb.com

+ *World's smallest pre-configured, fanless, ruggedized, embedded computer on the market*
+ *Cost-effective way to extend data collection, visualization and system maintenance to the network edge*
+ *Acts as mini-hub connecting different brands, models, platforms and communicates in a single MQTT Spark Plug-B protocol*
+ *Scalable pocket, manufacturing data gateway*

KEY SPECIFICATIONS

• Small form factor - less than 4 inches wide (<10.2cm)
• Intel® Atom™ E3815 1.4 GHz processor
• 4 GB DDR3L
• Ethernet port 2 x GbE, 1 x USB 3.0, 1 x HDMI
• Built-in 32G eMMC storage or with 128G mSATA SSD
• Windows 10 ENT LTSB (Model C-UNO2271-W10EDG-1)
• Ignition Edge™ MQTT software

RoHS COMPLIANT   CCC   CE   FCC   UL

The UNO (C-UNO2271-x) Series is a Smart Industrial Edge Gateway that is both rugged and pocket-size at less than 4 inches wide, making it an ideal host for application software. The fan-less, industrial design makes it perfect for both business and mission critical applications. With the UNO Edge Gateway, you can easily extend your data collection, visualization and system management to the edge of the network – all while keeping costs down. UNO acts as a mini hub that connects various brands, models and platforms and communicates data with a single MQTT Spark Plus-B protocol.

Model C-UNO2271-W10EDG-1 is available with Windows 10 ENT LTSB, 128G mSATA SSD and comes with Ignition Edge Onboard.

Model C-UNO2271-2 ships without an operating system, making it ideal for installing custom Linux versions.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
C-UNO2271-W10EDG-1	Atom E3815, 32G eMMC, Win 10 ENT, 128G mSATA Ignition Edge Software onboard with MQTT transmission
C-UNO2271-2	Atom E3815, 32G eMMC, 128G mSATA (no software)

ACCESSORIES - sold separately

96PSA-A120W24T2 - ADP A/D 100-240V 120W 24V C14 Cord End Terminal
1702002600 - Power Cable US Plug 1.8 m (industrial grade)
1702002605 - Power Cable EU Plug 1.8 m (industrial grade)
1702031801 - Power Cable UK Plug 1.8 m (industrial grade)
1700000596 - Power Cable China/Australia Plug 1.8 m (industrial grade)
UNO-2271G-EKAE - UNO-2271G Expansion ME Kit
UNO-2271G-DMKAE - UNO-2271G DIN Rail Kit
UNO-2000G-VMKAE - UNO-2000 VESA Mount Kit
UNO-2000G-PMKAE - UNO-2000 Pole Mount Kit
UNO-2271G-LKAE - UNO-2271G Lockable Kit, 10 units/per pack

WIDE RANGE PWR INPUT 10~36V

Wide range power input ensures normal operation in unstable power environments.

CABLE-LESS DESIGN

Cable-less design for internal space saving, enhanced MTBF, reliability of signal transition, and cost efficiency for assembly.

RUBBER STOPPER DESIGN WITH CAPTIVE SCREW

Modular box uses captive screw design to prevent screw loss during assembly and rubber stoppers provide better system stability.

VERSATILE MOUNTING

Variety of mounting methods -VESA, DIN rail, Pole, and Stand-mount.

All product specifications are subject to change without notice.
C-UNO2271-x_1518ds

UNO Smart Industrial Edge PC & Gateway
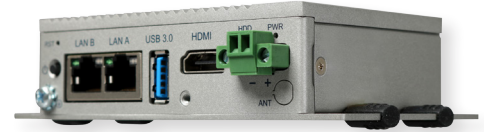
Models C-UNO2271-W10EDG-1, C-UNO2271-2
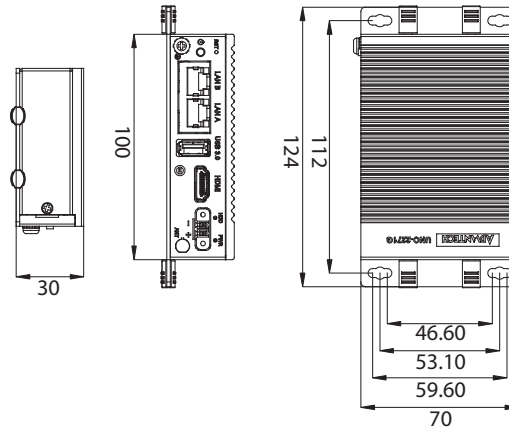
SPECIFICATIONS

GENERAL

Certification	CE, FCC, UL, CCC, BSMI
Dimensions	100W x 70D x 30H mm (3.9W x 2.8D x 1.2H inches)
Form Factor	Pocket size, same dimension as standard 2.5 inch SSD/HD
Enclosure	Aluminum housing
Mounting	Stand, Wall, VESA (optional), DIN-rail (optional), Pole (optional)
Weight (net)	0.6 kg (1.32 lbs)
Power Requirement	10 ~ 30VDC
Power Consumption	12W (typical), 20W (maximum)
OS Support	For mSATA Storage: Windows7, Windows10 LTSB, Advantech Linux. For eMMC Storage: Advantech embedded customized Windows 10 LTSB, Advantech Linux

SYSTEM HARDWARE

BIOS	AMI EFI64 Mbit
Watchdog Timer	Programmable 256 levels timer interval, from 1 to 255 seconds. Interrupt, system reset.
Processor	Intel Atom E3815 1.46GHz (E3825 support by project)
System Chip	Intel Atom SoC integrated
Memory	Onboard 4GB DDR3L 1066 MHz, built-in
Graphics Engine	Intel® HD graphics
Ethernet	Realtek RTL8111E GbE, 802.10av
LED Indicators	LEDs for Power, HDD, LAN (Active, Status)
Storage	Onboard 32G eMMC (Option 128G mSATA)
Expansion	1 x Full-size mPCIe slot

SPECIFICATIONS - continued
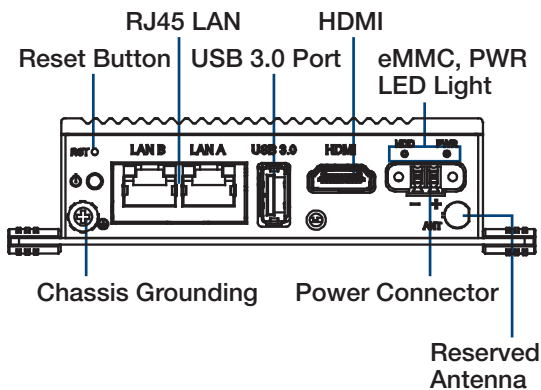
I/O INTERFACES

LAN Ports	2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
USB Ports	1 x USB 3.0
Displays	1 x HDMI, supports 1920 x 1080 @ 60Hz
Power Connector	1 x 2 pins, Terminal block
Grounding Protection	Chassis grounding

ENVIRONMENT

Operating Temperature	0 ~ +50 °C (+32 ~ +122 °F) @ 5 ~ 85% RH with 0.7 m/s airflow
Storage Temperature	-20 ~ +70 °C (-4 ~ +158 °F)
Relative Humidity	10 ~ 95% RH @ 40°C, non-condensing
Shock Protection	Operating, IEC 60068-2-27, 50G, half sine, 11 ms
Vibration Protection	Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
Ingress Protection	IP30

MECHANICAL - DIMENSIONAL DRAWING

Units = mm

FRONT I/O VIEW

Reset Button
RJ45 LAN
USB 3.0 Port
HDMI
eMMC, PWR LED Light
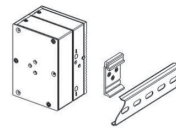Chassis Grounding
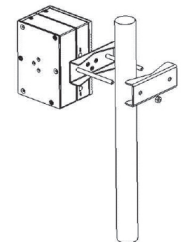Power Connector
Reserved Antenna

MOUNTING OPTIONS

DIN-rail Mount Illustration

Pole Mount Illustration

VESA Mount Illustration