

UNO-220

Industrial Raspberry Pi 4 HAT Gateway Kit

NEW



Introduction

UNO-220 is a power and I/O board designed for end users using Raspberry Pi 4 (RPi 4) single-board computers (SBCs) in unique IoT applications. Featuring a system-image OS equipped micro 8GB SD card, an RPi 4 HAT I/O board, additional RS-232/485 GPIOs, and an RTC battery backup for precise time keeping; UNO-220 industrial-grade chassis transforms RPi 4 into an intelligent gateway. UNO-220 also features pre-finished mounting holes and attachment screws enabling plug-and-play assembly with separately purchased RPi 4 SBCs. It provides developers with a complete RPi 4-ready industrial-grade gateway kit, which is ideal for rapid prototyping and mass deployment.

Specifications

General

▪ Certification	CE, FCC
▪ Dimensions (W x D x H)	100 x 70 x 32 mm (3.9 x 2.7 x 1.2 in)
▪ Form Factor	Micro
▪ Enclosure	Aluminum housing
▪ Mount Options	Wall mount, DIN rail (optional)
▪ Weight (Net)	0.5 kg (1.10 lbs)
▪ Power Consumption	15 W (typical)
▪ OS Support	AdvRaspbian

System Hardware

▪ Hardware Security	TPM 2.0 (available upon request)
▪ Storage	1 x Micro SD slot internal 8 GB SD card included, which can be swapped and inserted into Raspberry Pi 4.

I/O Interfaces

▪ Serial Ports	1 x RS232/485 (5-pin terminal block), automatic direction control, 300 ~ 115.2 kbps
▪ GPIO	GPI 0-3: VIH: 2 ~ 5V VIL: 0 ~ 0.8V GPO 0-3: 0 ~ 5V

Environment

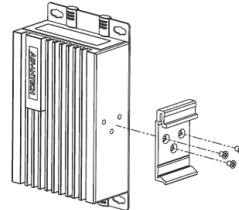
▪ Operating Temperature	0 ~ 50 °C (32 ~ 122 °F) @ 5 ~ 85% RH without 0.7m/s airflow
▪ Storage Temperature	20 ~ 60 °C (-4 ~ 140 °F)
▪ Relative Humidity	10 ~ 95% RH @ 40 °C, non-condensing
▪ Ingress Protection	IP40

Features

- Industrial-grade power and I/O gateway kit installed with Raspbian OS provides RPi 4 -ready solutions for rapid prototyping
- UNO-220 industrial-grade chassis transforms RPi 4 into a ruggedized gateway for shopfloor environments
- An power and industrial I/O board for RS-232/485 and GPIO extension
- Amazon AWS IoT Greengrass certified

Installation Scenario

DIN-Rail Mount Illustration



Stand Mount Illustration



Ordering Information

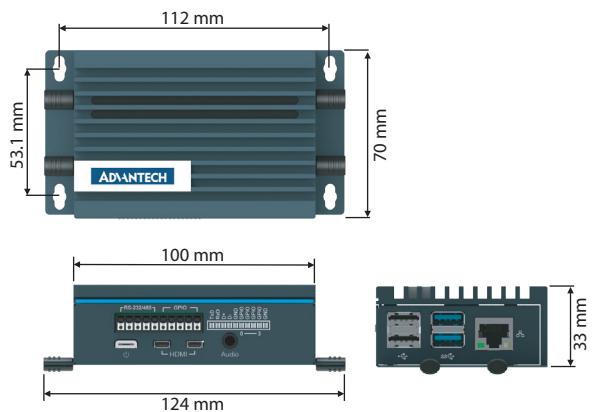
- **UNO-220-P4N1AE** Industrial Raspberry Pi gateway kit with 1 x RS-232/485, 4 x GPIO, 8 GB SD card, and AdvRaspbian OS
- **UNO-220-P4N2AE** Industrial Raspberry Pi 4 Gateway Kit with POE function, TPM, 1 x RS-232/485, 8 x GPIO, 8 GB SD Card, and AdvRaspbian OS

Optional Accessories

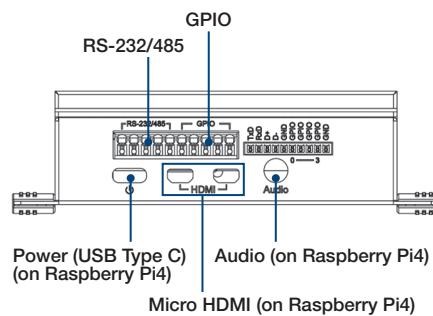
- **UNO-200-DMKAE** Optional DIN-rail kit

Dimensions

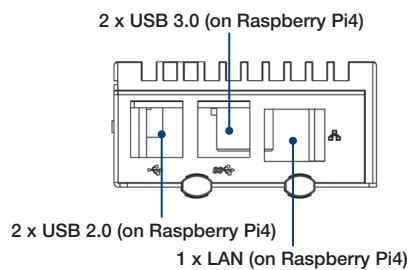
Unit: mm



Front I/O View



Side I/O View



Raspberry Pi4 Installation Guide

