WOP-315K

Revolutionary Industrial HMI
– Transform Your Operations with Smart Automation

Features

- ARM9™ Cortex-A35 800MHz + 8GB for fast, smooth performance
- 500+ protocols – connect any device, cut integration costs
- 16MB non-volatile memory protects data from power loss
- Free HMINavi Designer – Serial/Ethernet/USB, no license needed
- Unlimited I/O/macros, up to 7,999 screens
- No limitation on the internal I/Os points used for variety application
- Reliable firmware setting from HMINavi software for 24/7 operation
- Easy to switch one application to different LCD sizes in seconds
- IP65 aluminum – tough and stylish
- IDCS cloud – 24/7 monitoring & predictive maintenance
- Built-in FTP, VNC, Email, and security servers
- Dual Ethernet + WiFi/LTE for IoT & remote access

CE FCC

Introduction

WOP-300K series products as a comprehensive IoT total solution with edge controllers for manufacturing plants, process industries, semiconductor applications, and various general machine operations. The WOP-300K series product deliver seamless Industry 4.0 transformation through integrated edge computing, cloud connectivity, and real-time data analytics across diverse manufacturing environments. Additionally, this systems are bundled with the free HMINavi Designer programming software – a comprehensive IoT development platform designed for smart automation applications to enable predictive maintenance, quality assurance, and batch traceability through advanced visualization and data integration capabilities. Robust dual Ethernet ports with optional WiFi/LTE support and powerful connectivity drivers support 500+ variety market brands of industrial equipment, ensuring universal IoT compatibility and seamless digital transformation across manufacturing, semiconductor, and general edge machine applications.

Specifications

General

Certification	CE: EN61000-6-2, EN61000-6-4 EMI: FCC Part 15 Class A
Dimensions (W x H x D)	391.5 x 257.5 x 30.4 mm (15.41" x 10.14" x 1.20")
Cutout Dimensions	374 x 239 mm (14.72" x 9.4")
Front Panel Thickness	9.0 mm (0.35 in)
Operating System	HMI Linux, HMINavi Designer V4.0
Power Supply Voltage	$24V_{DC}$ ± 10% (Isolated)
Power Consumption	20W
Enclosure Housing	Die-cast aluminum alloy front bezel + PC
Mount Options	Panel
Weight (Net)	1.895 kg (4.18 lbs)

System Hardware

CPU	RISC ARM® Cortex™-A35 800MHz 64bits
Backup Memory	128KB 16 MB (eMMC) for Data & Alarm Logger
Working Memory	512MB DDR3L
Storage	8GB (eMMC)

Communication Interface

COM1	RS-232 (9Pin Terminal)
COM2	RS-422/485 (9Pin Terminal)
COM3	RS-485 (9Pin Terminal)
Ethernet (RJ45)	10/100-BaseT x1 10/100/1000-BaseT x1
4G / Wi-Fi	Mini-PCIe Extension Bus
I/Os	2 x USB 2.0 Type-A (Host) 1 x USB2.0 (Type-C) (Client) 1 x SD Card Slot

LCD and Touchscreen

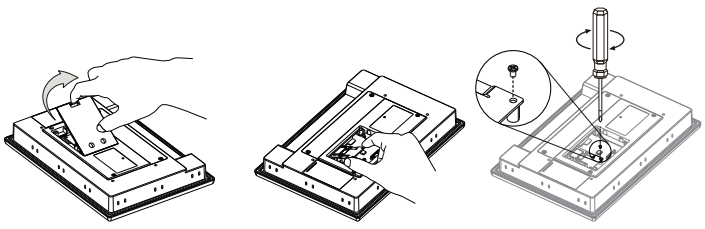
Display Type	FHD
Display Size	15.6"
Max. Resolution	1920 x 1080
Max. Colors	16.7M colors
Luminance (cd/m²)	350
Backlight Life	LED, 50,000 hr
Touchscreen	4 wires analog resistive

Environment

Operating Temperature	0 ~ 50°C
Storage Temperature	-10 ~ 60°C (Reliability)
Humidity	95% RH @ 40° C
Ingress Protection	Front panel: IP66
Shock Vibration	5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

4G/Wifi Module Installation Scenario

*Refer to the "WOP-300K Installation Guide" for detailed installation steps

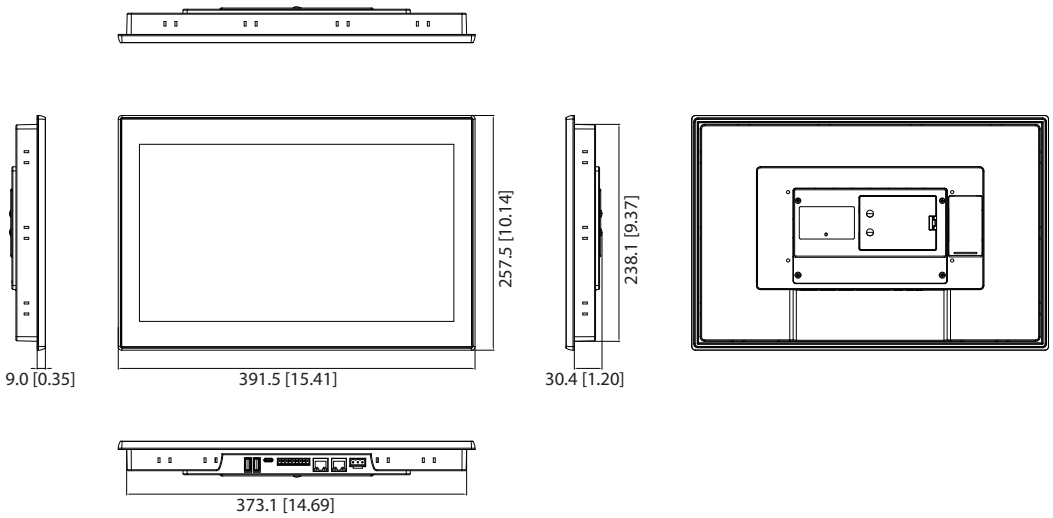


Open the extension rear cover ➡ Insert the mini PCI-e Wi-Fi card ➡ Lock the screw

Last updated: 15-July-2025

Dimensions

Unit: mm [inch]



Panel Cutout Dimentions: 374 x 239 mm (14.72 x 9.4 in)

Optional Accessories

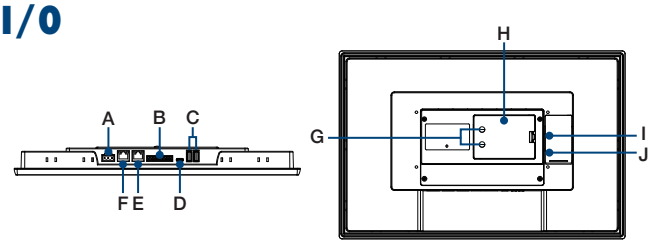
DIN-Rail Type Power Supply Module

- **PSD-A60W24** DIN RAIL A/D 100-240V 60W 24V
- **PSD-A120W24** DIN RAIL A/D 100-240V 120W 24V

Wi-Fi Module

- **EWM-W180H01E** Wi-Fi 5 + BT Module 2.4/5 GHz MiNi PCIe

I/O

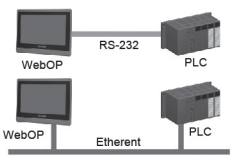


A. Power connector
B. COM1&2&3 9-pin female
C. USB host (type-A)
D. USB client (type-C)
E. Ethernet port1: Giga LAN
F. Ethernet port2: 10/100M LAN
G. Wi-Fi antenna port
H. Extension rear cover
I. SD card slot
J. Nano SIM card slot

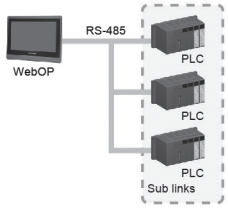
Communication Links

Direct Link

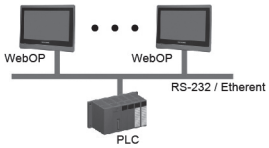
1-to-1 Connection



1-to-N Connection

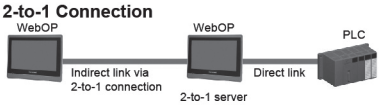


N-to-1 Data Sharing Connection

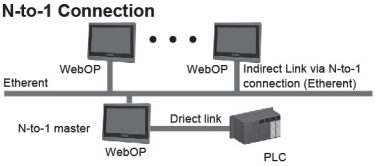


In-Direct Link

2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection