

WOP-204K

4.3" WQVGA Operator Panel Installed with HMINavi Software



Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- 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
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

Introduction

To fulfill the stringent standards of the automation market, especially for packaging, label slitting, and F&B applications, Advantech developed the WOP-200K series for diverse operations that involve PLCs, thermal controllers, inverters, and sensors. Powered by an ARM9™ 32-bit RISC processor with 64 MB working memory, the WOP-200K series systems are available with LCDs of varying size (from 4.3" to 15"). Additionally, WOP-200K systems are bundled with Advantech's HMINavi software – a human-machine interface designed for HMI applications to reduce labor and improve manufacturing efficiency through visualization. Powerful connectivity drivers support 500+ variety market brands of PLC.

Specifications

General

- **Certification** CE, FCC, UL61010
- **Dimensions (W x H x D)** 129 x 103 x 31.3mm (5.08' x 4.06' x 1.23')
- **Cutout Dimensions** 118.5 x 92.5mm (4.67' x 3.64')
- **Front Panel Thickness** 5 mm (0.19 in)
- **Operating System** HMI RTOS, HMINavi Designer
- **Power Supply Voltage** 24V_{DC} ± 10%, Isolation
- **Power Consumption** 10W
- **Enclosure Housing** Plastic
- **Mount Options** Panel
- **Weight (Net)** 0.23 kg (0.51 lbs)

System Hardware

- **CPU** ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** 64 MB SDRAM
- **Storage** 128 MB NAND Flash
Runtime Max Size: 64 MB
Data Logger Max Size: 64 MB

Communication Interface

- **COM1** RS-232 (5-Pin Terminal)
- **COM2** RS-422/485 (5-Pin Terminal)
- **COM3** RS-485 (5-Pin Terminal)
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os** 1 x USB (Client)
1 x USB (Host)

LCD and Touchscreen

- **Display Type** WQVGA TFT LCD
- **Display Size** 4.3"
- **Max. Resolution** 480 x 272
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 400
- **Backlight Life** LED, 20,000 hr
- **Touchscreen** 4 wires analog resistive

Environment

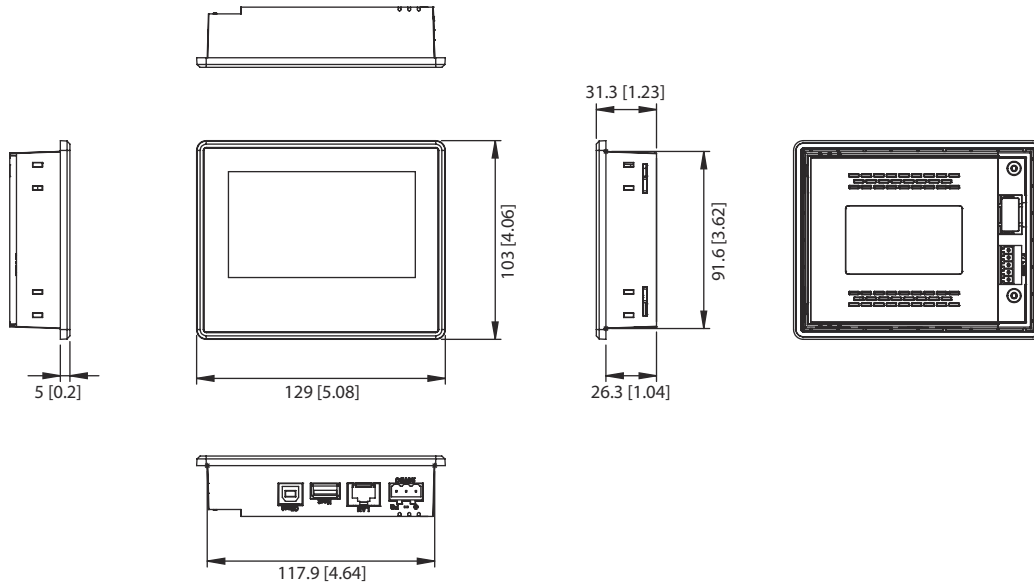
- **Operating Temperature** -10 ~ 60°C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158° F)
- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-204K-NAE** 4.3" WQVGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]



Panel Cutout Dimensions: 118.5 x 92.5 mm (4.67 x 3.64 in)

Optional Accessories

DIN-Rail Type Power Supply Module

- 96PSD-A60W24-MM A/D 100-240V 60W 24V MDR DIN RAIL
- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

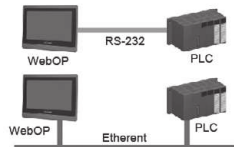
Rear View



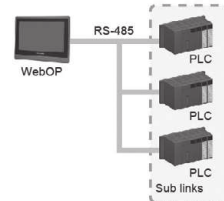
Communication Links

Direct Link

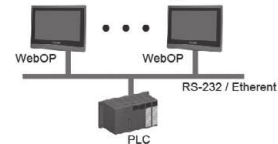
1-to-1 Connection



1-to-N Connection

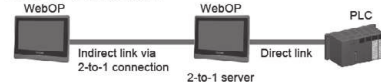


N-to-1 Data Sharing Connection

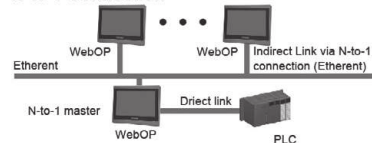


In-Direct Link

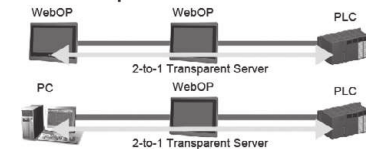
2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection



WOP-207K

7" WVGA Operator Panel Installed with HMINavi Software



Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- 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
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

Introduction

To fulfill the stringent standards of the automation market, especially for packaging, label slitting, and F&B applications, Advantech developed the WOP-200K series for diverse operations that involve PLCs, thermal controllers, inverters, and sensors. Powered by an ARM9™ 32-bit RISC processor with 64 MB working memory, the WOP-200K series systems are available with LCDs of varying size (from 4.3" to 15"). Additionally, WOP-200K systems are bundled with Advantech's HMINavi software – a human-machine interface designed for HMI applications to reduce labor and improve manufacturing efficiency through visualization. Powerful connectivity drivers support 500+ variety market brands of PLC.

Specifications

General

- **Certification** CE, FCC, UL61010
- **Dimensions (W x H x D)** 189.6 x 144.9 x 36mm (7.46' x 5.70' x 1.42')
- **Cutout Dimensions** 175 x 132.5mm (6.89' x 5.22')
- **Front Panel Thickness** 6 mm (0.23 in)
- **Operating System** HMI RTOS, HMINavi Designer
- **Power Supply Voltage** 24V_{DC} ± 10%, Isolation
- **Power Consumption** 20W
- **Enclosure Housing** Plastic
- **Mount Options** Panel
- **Weight (Net)** 0.55 kg (1.21 lbs)

System Hardware

- **CPU** ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** 64 MB SDRAM
- **Storage** 128 MB NAND Flash
Runtime Max Size: 64 MB
Data Logger Max Size: 64 MB

Communication Interface

- **COM1** RS-232 (DB9 Female)
- **COM2** RS-422/485 (COM1: Pin 1, 4, 5, 6, 9)
- **COM3** RS-485 (COM1: Pin 5, 7, 8)
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os** 1 x USB (Client)
1 x USB (Host)

LCD and Touchscreen

- **Display Type** WVGA TFT LCD
- **Display Size** 7"
- **Max. Resolution** 800 x 480
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 400
- **Backlight Life** LED, 20,000 hr
- **Touchscreen** 4 wires analog resistive

Environment

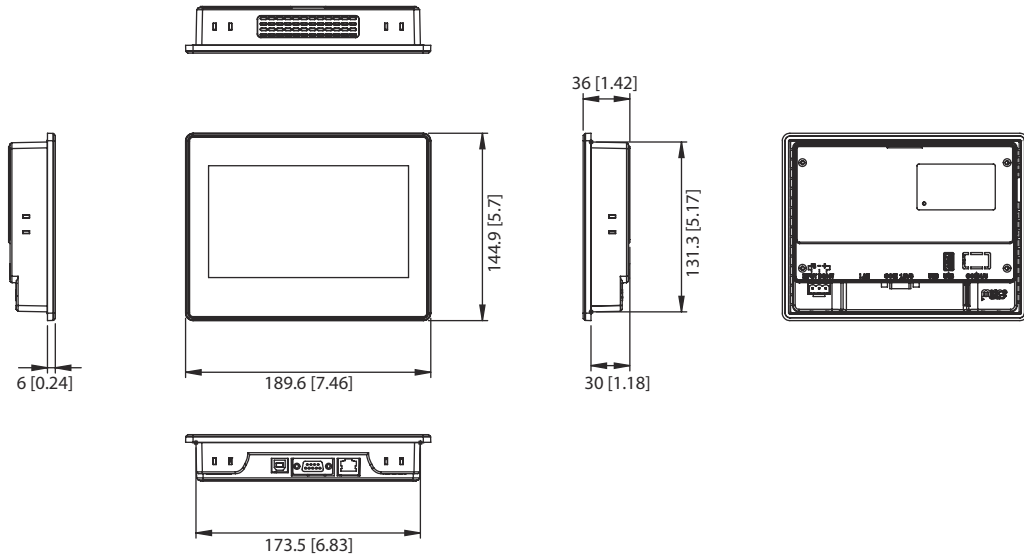
- **Operating Temperature** -10 ~ 60°C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158° F)
- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-207K-NAE** 7" WVGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]



Panel Cutout Dimensions: 175 x 132.5 mm (6.89 x 5.22 in)

Optional Accessories

DIN-Rail Type Power Supply Module

- 96PSD-A60W24-MM A/D 100-240V 60W 24V MDR DIN RAIL
- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

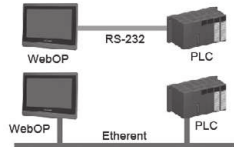
Rear View



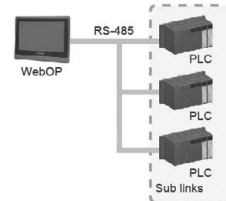
Communication Links

Direct Link

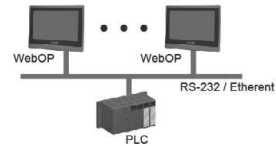
1-to-1 Connection



1-to-N Connection

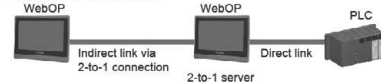


N-to-1 Data Sharing Connection

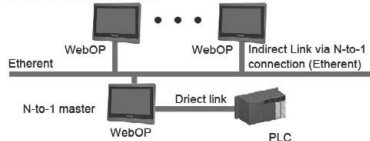


In-Direct Link

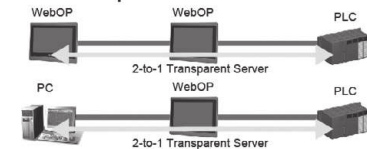
2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection



WOP-208K

8" SVGA Operator Panel Installed with HMINavi Software



Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- 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
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

Introduction

To fulfill the stringent standards of the automation market, especially for packaging, label slitting, and F&B applications, Advantech developed the WOP-200K series for diverse operations that involve PLCs, thermal controllers, inverters, and sensors. Powered by an ARM9™ 32-bit RISC processor with 64 MB working memory, the WOP-200K series systems are available with LCDs of varying size (from 4.3" to 15"). Additionally, WOP-200K systems are bundled with Advantech's HMINavi software – a human-machine interface designed for HMI applications to reduce labor and improve manufacturing efficiency through visualization. Powerful connectivity drivers support 500+ variety market brands of PLC.

Specifications

General

- **Certification** CE, FCC, UL61010
- **Dimensions (W x H x D)** 233 x 176 x 43.3mm (9.17" x 6.93" x 1.7")
- **Cut-out Dimensions** 221 x 164mm (8.70" x 6.44")
- **Front Panel Thickness** 6 mm
- **Operating System** HMI RTOS, HMINavi Designer
- **Power Supply Voltage** 24V_{DC} ± 10%, Isolation
- **Power Consumption** 20W
- **Enclosure Housing** Plastic
- **Mount Options** Panel
- **Weight (Net)** 1 kg (2.2 lbs)

System Hardware

- **CPU** ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** 64 MB SDRAM
- **Storage** 128 MB NAND Flash
Runtime Max Size: 64 MB
Data Logger Max Size: 64 MB

Communication Interface

- **COM1** RS-232 (DB9 Female)
- **COM2** RS-422/485 (COM1: Pin 1, 4, 5, 6, 9)
- **COM3** RS-485 (COM1: Pin 5, 7, 8)
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os** 1 x USB (Client)
1 x USB (Host)

LCD and Touchscreen

- **Display Type** SVGA TFT LCD
- **Display Size** 8"
- **Max. Resolution** 800 x 600
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 250
- **Backlight Life** LED, 20,000 hr
- **Touchscreen** 4 wires analog resistive

Environment

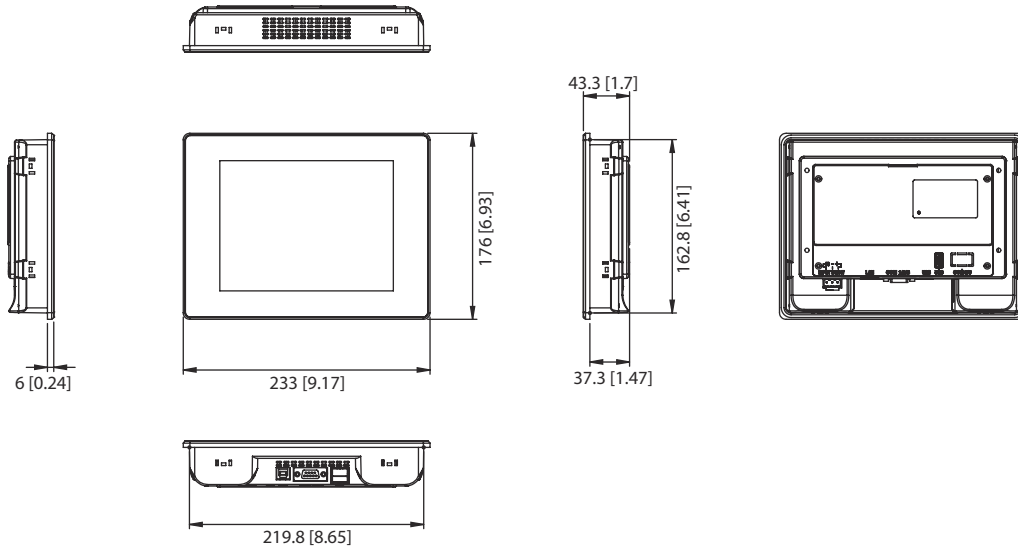
- **Operating Temperature** -10 ~ 60°C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158° F)
- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-208K-NAE** 8" SVGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]



Panel Cutout Dimensions: 221 x 164 mm (8.7 x 6.44 in)

Optional Accessories

DIN-Rail Type Power Supply Module

- 96PSD-A60W24-MM A/D 100-240V 60W 24V MDR DIN RAIL
- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

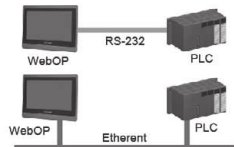
Rear View



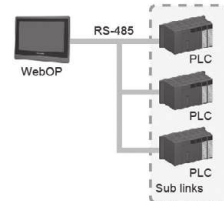
Communication Links

Direct Link

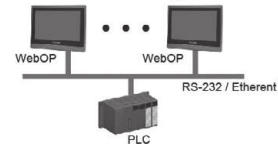
1-to-1 Connection



1-to-N Connection

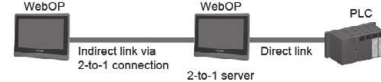


N-to-1 Data Sharing Connection

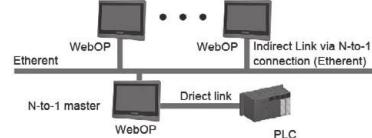


In-Direct Link

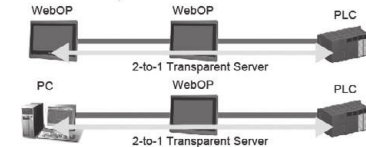
2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection



WOP-210K

10.1" WSVGA Operator Panel Installed with HMINavi Software



Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- 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
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

Introduction

To fulfill the stringent standards of the automation market, especially for packaging, label slitting, and F&B applications, Advantech developed the WOP-200K series for diverse operations that involve PLCs, thermal controllers, inverters, and sensors. Powered by an ARM9™ 32-bit RISC processor with 64 MB working memory, the WOP-200K series systems are available with LCDs of varying size (from 4.3" to 15"). Additionally, WOP-200K systems are bundled with Advantech's HMINavi software – a human-machine interface designed for HMI applications to reduce labor and improve manufacturing efficiency through visualization. Powerful connectivity drivers support 500+ variety market brands of PLC.

Specifications

General

- **Certification** CE, FCC, UL61010
- **Dimensions (W x H x D)** 270.1 x 212.1 x 43.4mm (10.63' x 8.35' x 1.71')
- **Cutout Dimensions** 259.5 x 201.5mm (10.22' x 7.93')
- **Front Panel Thickness** 6 mm (0.23 in)
- **Operating System** HMI RTOS, HMINavi Designer
- **Power Supply Voltage** 24V_{DC} ± 10%, Isolation
- **Power Consumption** 20W
- **Enclosure Housing** Plastic
- **Mount Options** Panel
- **Weight (Net)** 1.1 kg (2.43 lbs)

System Hardware

- **CPU** ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** 64 MB SDRAM
- **Storage** 128 MB NAND Flash
Runtime Max Size: 64 MB
Data Logger Max Size: 64 MB

Communication Interface

- **COM1** RS-232 (DB9 Female)
- **COM2** RS-422/485 (COM1: Pin 1, 4, 5, 6, 9)
- **COM3** RS-485 (COM1: Pin 5, 7, 8)
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os** 1 x USB (Client)
1 x USB (Host)

LCD and Touchscreen

- **Display Type** WSVGA TFT LCD
- **Display Size** 10.1"
- **Max. Resolution** 1024 x 600
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 350
- **Backlight Life** LED, 20,000 hr
- **Touchscreen** 4 wires analog resistive

Environment

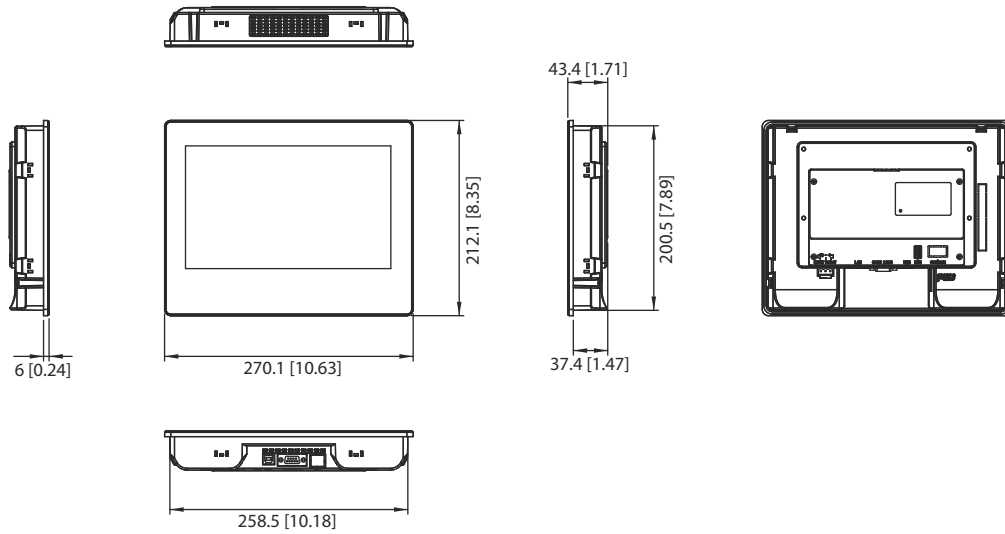
- **Operating Temperature** -10 ~ 60°C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158° F)
- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-210K-NAE** 10.1" WSVGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]



Panel Cutout Dimensions: 259.5 x 201.5 mm (10.22 x 7.93 in)

Optional Accessories

DIN-Rail Type Power Supply Module

- 96PSD-A60W24-MM A/D 100-240V 60W 24V MDR DIN RAIL
- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

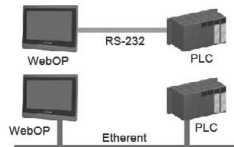
Rear View



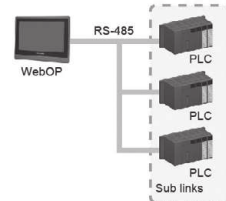
Communication Links

Direct Link

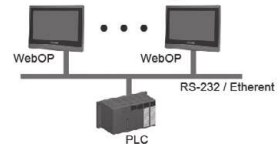
1-to-1 Connection



1-to-N Connection

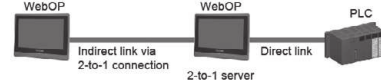


N-to-1 Data Sharing Connection

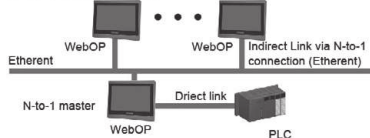


In-Direct Link

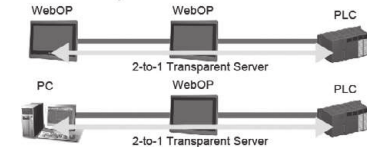
2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection



WOP-212K

12" XGA Operator Panel Installed with HMINavi Software



Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- 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
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

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Specifications

General

- **Certification** CE, FCC, UL61010
- **Dimensions (W x H x D)** 335.4 x 245.8 x 60.3mm (13.21' x 9.68' x 2.37')
- **Cutout Dimensions** 302 x 228.5mm (11.89' x 9')
- **Front Panel Thickness** 6 mm (0.23 in)
- **Operating System** HMI RTOS, HMINavi Designer
- **Power Supply Voltage** 24V_{DC} ± 10%, Isolation
- **Power Consumption** 20W
- **Enclosure Housing** Plastic
- **Mount Options** Panel
- **Weight (Net)** 2 kg (4.41 lbs)

System Hardware

- **CPU** ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** 64 MB SDRAM
- **Storage** 128 MB NAND Flash
Runtime Max Size: 64 MB
Data Logger Max Size: 64 MB

Communication Interface

- **COM1** RS-232 (DB9 Female)
- **COM2** RS-422/485 (COM1: Pin 1, 4, 5, 6, 9)
- **COM3** RS-485 (COM1: Pin 5, 7, 8)
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os** 1 x USB (Client)
1 x USB (Host)

LCD and Touchscreen

- **Display Type** XGA TFT LCD
- **Display Size** 12"
- **Max. Resolution** 1024 x 768
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 500
- **Backlight Life** LED, 20,000 hr
- **Touchscreen** 4 wires analog resistive

Environment

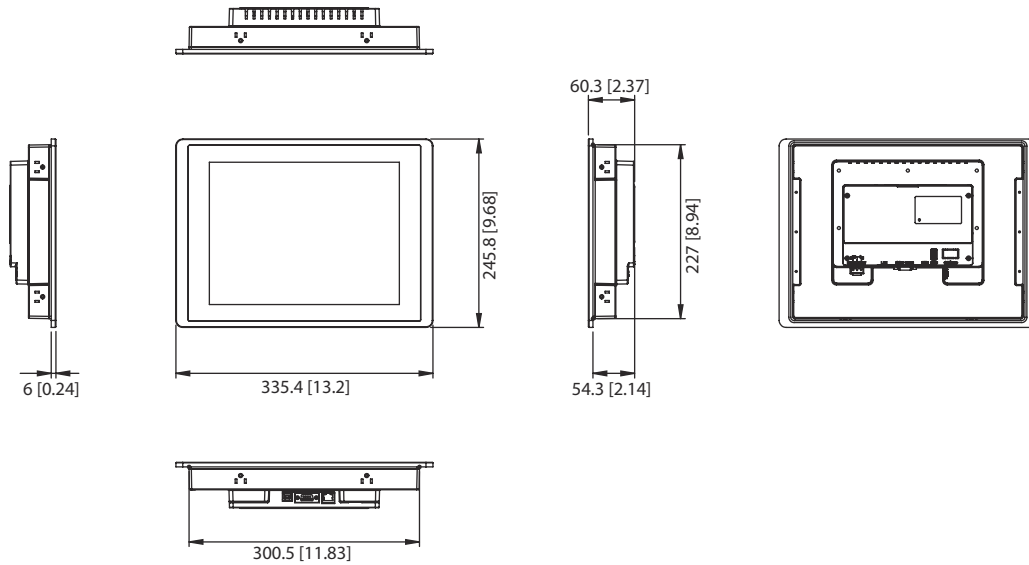
- **Operating Temperature** -10 ~ 60°C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158° F)
- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-212K-NAE** 12" XGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]



Panel Cutout Dimensions: 302 x 228.5 mm (11.89 x 9 in)

Optional Accessories

DIN-Rail Type Power Supply Module

- 96PSD-A60W24-MM A/D 100-240V 60W 24V MDR DIN RAIL
- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

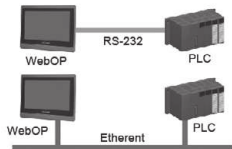
Rear View



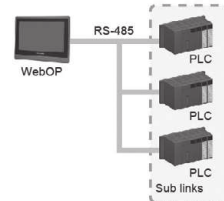
Communication Links

Direct Link

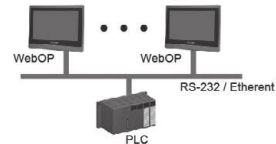
1-to-1 Connection



1-to-N Connection

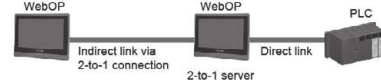


N-to-1 Data Sharing Connection

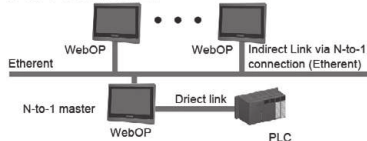


In-Direct Link

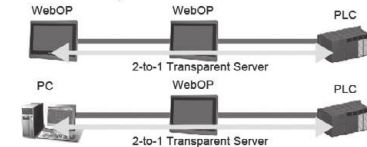
2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection



WOP-215K

15" XGA Operator Panel Installed with HMINavi Software



Features

- ARM9™ 32-bit RISC processor with 64 MB SDRAM working memory
- Supports over 500+ PLC industrial communication protocols
- Backup memory 128KB for retaining critical data or parameter
- Supports the HMINavi Designer development tool free on Windows 10
- Supports HMINavi Runtime data downloads through Serial, Ethernet, USB port
- 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
- Supports operation in both landscape and portrait mode
- Panel mount design ensures easy installation and IP66-rated front panel

Introduction

To fulfill the stringent standards of the automation market, especially for packaging, label slitting, and F&B applications, Advantech developed the WOP-200K series for diverse operations that involve PLCs, thermal controllers, inverters, and sensors. Powered by an ARM9™ 32-bit RISC processor with 64 MB working memory, the WOP-200K series systems are available with LCDs of varying size (from 4.3" to 15"). Additionally, WOP-200K systems are bundled with Advantech's HMINavi software – a human-machine interface designed for HMI applications to reduce labor and improve manufacturing efficiency through visualization. Powerful connectivity drivers support 500+ variety market brands of PLC.

Specifications

General

- **Certification** CE, FCC, UL61010
- **Dimensions (W x H x D)** 399.1 x 297.6 x 57.3mm (15.71" x 11.72" x 2.26")
- **Cutout Dimensions** 384.5 x 283mm (15.14" x 11.14")
- **Front Panel Thickness** 6 mm (0.23 in)
- **Operating System** HMI RTOS, HMINavi Designer
- **Power Supply Voltage** 24V_{DC} ± 10%, Isolation
- **Power Consumption** 20W
- **Enclosure Housing** Plastic
- **Mount Options** Panel
- **Weight (Net)** 3 kg (6.61 lbs)

System Hardware

- **CPU** ARM9™ 32-bit RISC processor
- **Battery Backup Memory** 128KB
- **Working Memory** 64 MB SDRAM
- **Storage** 128 MB NAND Flash
Runtime Max Size: 64 MB
Data Logger Max Size: 64 MB

Communication Interface

- **COM1** RS-232 (DB9 Female)
- **COM2** RS-422/485 (COM1: Pin 1, 4, 5, 6, 9)
- **COM3** RS-485 (COM1: Pin 5, 7, 8)
- **Ethernet (RJ45)** 10/100-BaseT
- **I/Os** 1 x USB (Client)
1 x USB (Host)

LCD and Touchscreen

- **Display Type** XGA TFT LCD
- **Display Size** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors** 65,536 colors
- **Luminance (cd/m²)** 350
- **Backlight Life** LED, 20,000 hr
- **Touchscreen** 4 wires analog resistive

Environment

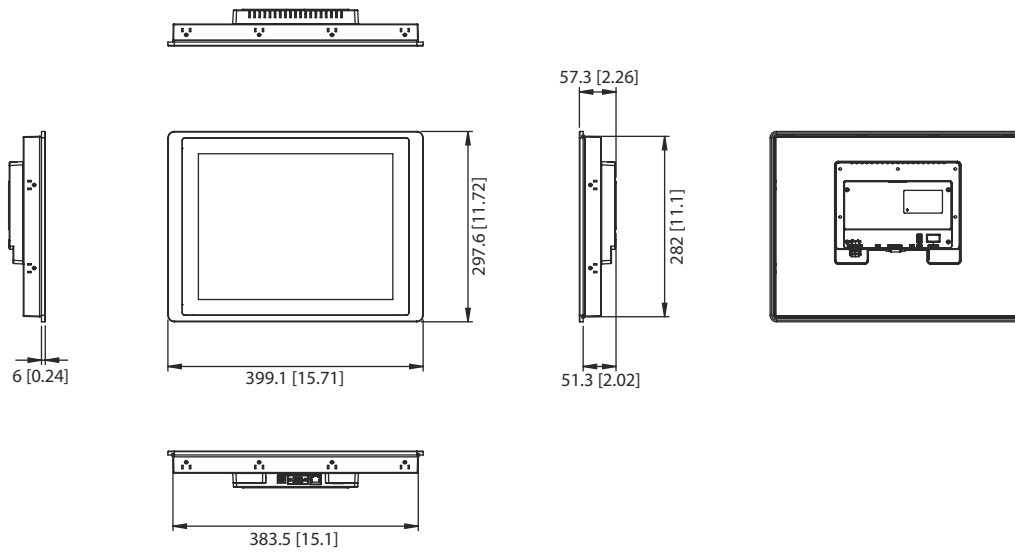
- **Operating Temperature** -10 ~ 60°C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158° F)
- **Humidity** 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP66
- **Vibration Protection** 5 ~ 500Hz (X,Y,Z direction, 1Grms, 1hour per axis)

Ordering Information

- **WOP-215K-NAE** 15" XGA, 64MB, 128MB(NAND), Serial x3, Ethernet

Dimensions

Unit: mm [inch]



Panel Cutout Dimensions: 384.5 x 283 mm (15.14 x 11.14 in)

Optional Accessories

DIN-Rail Type Power Supply Module

- 96PSD-A60W24-MM A/D 100-240V 60W 24V MDR DIN RAIL
- 96PSD-A120W24-MN A/D 100-240V 120W 24V NDR DIN RAIL

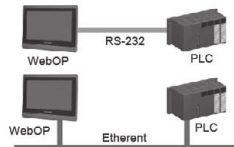
Rear View



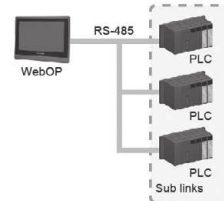
Communication Links

Direct Link

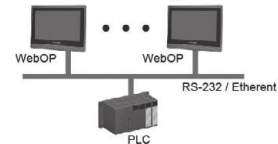
1-to-1 Connection



1-to-N Connection



N-to-1 Data Sharing Connection

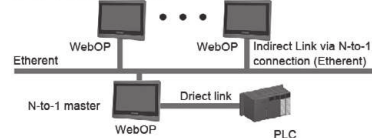


In-Direct Link

2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection

