

Web panel - WP 4156-WHPS



1148691

<https://www.phoenixcontact.com/us/products/1148691>

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Web panel with 39.6 cm/15.6" TFT-display (projective-capacitive (PCAP)), 1366 x 768 pixel(s) (HD), 16.7 million colors, Arm® Cortex®-A53, 4x 1.2 GHz, 2x USB host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Yocto/Linux and user software: Chromium Browser. (bus system: without)

Your advantages

- Easy startup – just enter the IP and URL
- Flexible, thanks to open web standard and free choice of web server and visualization software
- No security updates are required for JAVA or Flash plug-ins thanks to HTML5
- Ideal for use with PLCnext Engineer or CODESYS
- Embedded Linux operating system
- Visualization of self-programmed JavaScript applications possible
- Secure communication, thanks to SSL-encrypted data transmission

Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1148691 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | D16 |
| Product Key | DRCADF |
| GTIN | 4063151142353 |
| Weight per Piece (including packing) | 4,950 g |
| Weight per Piece (excluding packing) | 4,000 g |
| Customs tariff number | 84714100 |
| Country of origin | DE |

Technical Data

Product properties

| | |
|--------------|----------------|
| Product type | Operator panel |
|--------------|----------------|

Computer data

| | |
|------------------|------------------------------|
| Processor | Arm® Cortex®-A53, 4x 1.2 GHz |
| Operating system | Yocto/Linux |
| RAM | 1 GB LPDDR3 |
| Data storage | Flash eMMC, 8 GB |
| Slots | 1x microSD |

Display

| | |
|-----------------------|--------------------------------|
| Display type | 39.6 cm/15.6" TFT |
| Screen resolution | 1366 x 768 Pixel(s) (HD) |
| Touch technology | projective-capacitive (PCAP) |
| Display lighting type | LED |
| Brightness | 320 cd/m² typical (adjustable) |
| MTBF | 70000 h |
| Color spectrum | 16.7 million colors |
| Reading angle left | 80 ° |
| Reading angle right | 80 ° |
| Reading angle top | 80 ° |
| Reading angle bottom | 80 ° |

Software

| | |
|---------------|------------------|
| User software | Chromium Browser |
|---------------|------------------|

System requirements

| | |
|----------------|------------------|
| Runtime system | Chromium browser |
|----------------|------------------|

Interfaces

| | |
|---------------------|----------------------------------|
| Interfaces | 2x USB Host 2.0 |
| Optional interfaces | Without optional interface |
| Network | 1 x Ethernet (10/100 Mbps), RJ45 |
| Bus system | without |

Electrical properties

Supply

| | |
|-----------------------------|---------------|
| Supply voltage | 24 V DC |
| Supply voltage range | 18 V ... 30 V |
| Power supply unit | 24 V DC ±20 % |
| Typical current consumption | 1 A |

Real-time clock

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| | |
|----------------|-----------------------------|
| Realtime clock | Integrated (battery backup) |
|----------------|-----------------------------|

Mounting

| | |
|---------------|----------------|
| Mounting type | Front mounting |
|---------------|----------------|

Material specifications

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|----------------------|-----------------------------|
| Material front plate | Aluminum (natural anodized) |
| Housing material | Steel sheet, zinc-plated |

Ambient conditions

| | |
|--|--------------------------------|
| Degree of protection | IP65 (front), IP20 (back) |
| Ambient temperature (operation) | 0 °C ... 50 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Altitude | 3000 m |
| Permissible humidity (operation) | 20 % ... 85 % (non-condensing) |
| Permissible humidity (storage/transport) | 20 % ... 85 % (non-condensing) |
| Shock | DIN EN 60068-2-27 |
| Vibration (operation) | DIN EN 60068-2-6 |

Dimensions

External dimensions

| | |
|------------------------|--|
| Width / Height / Depth | 436 mm / 278 mm / 6 mm (Dimensions of the front plate) |
|------------------------|--|

Installation dimensions

| | |
|-------------------------------------|---|
| Width / Height / Installation depth | 425 mm / 260 mm / 53 mm (Installation cutout) |
|-------------------------------------|---|

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Approvals



UL Listed

Approval ID: FILE E 238705



cUL Listed

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cULus Listed

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27330201 |
| ECLASS-10.0.1 | 27330201 |
| ECLASS-11.0 | 27330201 |

ETIM

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| ETIM 8.0 | EC001412 |
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UNSPSC

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| UNSPSC 21.0 | 43211900 |
|-------------|----------|

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Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

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Accessories

USB memory stick

USB memory stick - USB FLASH DRIVE - 2402809

<https://www.phoenixcontact.com/us/products/2402809>

USB memory stick, 8 GB



Mounting material

Mounting material - HMI SCB MOUNTING KIT 6 - 2701385

<https://www.phoenixcontact.com/us/products/2701385>

HMI mounting kit for installation on a front plate. The mounting kit includes 6 x mounting brackets, 6 x screw threads, and a hexagonal wrench.



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PCB connector

PCB connector - MC 1,5/ 3-STF-3,5 BD:1-3 - 1751312

<https://www.phoenixcontact.com/us/products/1751312>



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MC 1,5/...-STF, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

Mounting material

Mounting material - HMI WALL MOUNTING KIT - 2701380

<https://www.phoenixcontact.com/us/products/2701380>

HMI mounting kit for panel installation. The mounting kit includes 2 spring clips.



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Memory

Memory - MICROSDHC-16GB - 1154696

<https://www.phoenixcontact.com/us/products/1154696>



Industrial grade 16 GB MicroSDHC 3DTLC

Memory

Memory - MICROSDHC-32GB - 1154699

<https://www.phoenixcontact.com/us/products/1154699>



Industrial grade 32 GB MicroSDHC 3DTLC

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com

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