



**FORTEC**  
GROUP

# POS-Line 21.5

High-quality, robust monitors for process automation in industry

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One partner, unlimited technology solutions

# Product Features

## POS-Line 21.5

### Robust Monitor Series

### Touchscreen possible

### Variable front options



#### Monitor description

- Highly variable industry monitor solution
- robust, slim cover offers all options for integration and various applications and various modern business scenarios
- equipped with industrial displays and designed for long term availability
- light and slim design presents a modern small look
- passive cooling allows operating the system under full load even at high ambient temperatures
- VESA Mounting holes for using as an HMI or mounted on a stand
- Mounting brackets for in-wall mounting
- safety glass or touchscreens available



#### POS-Line IOT

- featuring the Raspberry Pi CM3+ based TFT platform Artista-IoT
- industrial functions like Real-Time-Clock and others
- Basis configuration: CM3+ | 32GB
- Standard configuration: Raspberry Pi®



#### POS-Line IQ

- High performance Intel® Celeron® J3455 processor
- 4GB highspeed RAM and an industrial grade SSD with 128 GB memory

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Various accessories are available for POS-Line monitors.

All monitors can be customized according to your specific requirements. Please contact our sales team if you are interested in product modifications or custom designs.

# Panel and Housing

|                                                     | Measure       | Description                                                                                                         |
|-----------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------|
| Panel Diagonal                                      | [mm] / [Inch] | 546.86/ 21.5                                                                                                        |
| Type                                                |               | Open -frame monitor (various bezels, TrueFlat glass and touch solutions are available under options)                |
| Resolution                                          | [Pixel]       | 1920 x 1080 FHD                                                                                                     |
| Luminance (center)                                  | [cd/m²]       | 300                                                                                                                 |
| Viewing angle (U/ D/ L/ R)                          | [°]           | 89/ 89/ 89/ 89                                                                                                      |
| Backlight   Number of colors                        | —   [M]       | LED   16.7                                                                                                          |
| Active area (H/V)                                   | [mm]          | 476.6 x 268.1                                                                                                       |
| Contrast ratio                                      |               | 5000:1                                                                                                              |
| Response time (on/off)                              | [ms]          | 25                                                                                                                  |
| Pixel class                                         |               | ISO 9241-307 (pixel error class II)                                                                                 |
| Life time back light until reaching half brightness | [h]           | 50.000                                                                                                              |
| Continuous operating time                           | [h] / [d]     | 24/ 7                                                                                                               |
| Mounting                                            | [mm]          | VESA 200 x 100                                                                                                      |
| Storage temperature                                 | [°C] / [°F]   | -20 ~ 60 / -4 ~ 140                                                                                                 |
| Storage/ Operating humidity                         | [%]           | 5 ~ 90 (non condensing)                                                                                             |
| Panel orientation                                   |               | Landscape and Portrait                                                                                              |
| Location of connectors                              |               | Landscape: bottom/ Portrait: left (front view)                                                                      |
| Location of OSD buttons                             |               | Landscape: bottom/ Portrait: right (front view)                                                                     |
| Housing                                             |               | Powdered Aluminium, black RAL 9005                                                                                  |
| IP grade                                            |               | IP 65 on the front if option TrueFlat glass                                                                         |
| Conformity                                          |               | CE, FCC Class A, EU-RoHS                                                                                            |
| Packaging                                           |               | Single packaging single packaging, up to 4 via parcel service, from 5 units on cargo pallet (max. 14 packages p.p.) |
| Package Contents                                    |               | Safety instructions                                                                                                 |

## POS-Line 21.5



Monitor open frame including two standard brackets



Monitor with TrueFlat glass

All figures are typical values. The real values of the panel may vary. The optical characteristics are determined after the panel has been „ON“ for approximately 30 minutes at an ambient temperature of 25° C (77° F).

Life time of the backlight is defined as the time to take until the brightness reduces to 50% of its original value.

## Video PME - VGA, HDMI, Display Port

## POS-Line 21.5

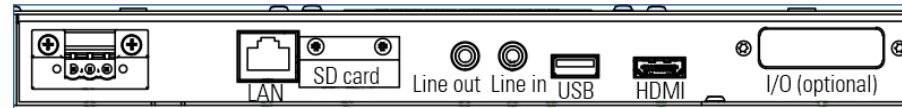


|                                     |          |                                                                        |
|-------------------------------------|----------|------------------------------------------------------------------------|
| Interfaces                          |          | 1 x VGA, 1 x HDMI, 1 x DisplayPort, 1 x Audio Line-Out, 1 x USB-Remote |
| Operating temperature               | [°C/ F°] | 0 ~ 50/ 32 ~ 122                                                       |
| Power supply                        | [V]      | 12                                                                     |
| Power consumption (typ.)            | [Watt]   | 22                                                                     |
| Weight                              | [kg]     | 3.2                                                                    |
| Dimensions basic device (W x H x D) | [mm]     | 514.0 x 319.0 x 54.0                                                   |

| Article Name   | Order Number | Description                                            |
|----------------|--------------|--------------------------------------------------------|
| POSL-MO-215-00 | MO-41-166    | POS-Line 21.5 Monitor basic device open frame          |
| POSL-MO-215-01 | MO-41-171    | POS-Line 21.5 Monitor with front bezel                 |
| POSL-MO-215-02 | MO-41-176    | POS-Line 21.5 Monitor with front bezel and glass       |
| POSL-MO-215-03 | MO-41-181    | POS-Line 21.5 Monitor with TrueFlat glass              |
| POSL-MO-215-04 | MO-41-186    | POS-Line 21.5 Monitor with front bezel and PCAP TS     |
| POSL-MO-215-05 | MO-41-191    | POS-Line 21.5 Monitor with TrueFlat glass with PCAP TS |

Further information on the individual options can be found in this document under - OPTIONS.

# IOT - Raspberry® IoT Controller

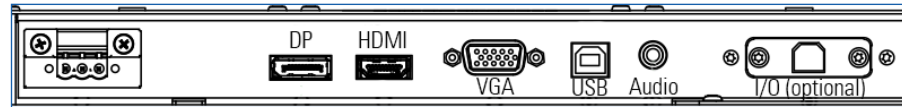
**POS-Line 21.5**

|                                     |          |                                                                 |
|-------------------------------------|----------|-----------------------------------------------------------------|
| Interfaces                          |          | 1 x LAN, 2 x USB, 1 x HDMI, 1 x Line out, 1 x MicroSD card slot |
| Raspberry® PI                       |          | CM3+, 32 GB                                                     |
| Operating temperature               | [°C/ F°] | 0 ~ 45/ 32 ~ 113                                                |
| Power supply                        | [V]      | 12                                                              |
| Power consumption (typ.)            | [Watt]   | 23                                                              |
| Weight                              | [kg]     | 3.4                                                             |
| Dimensions basic device (W x H x D) | [mm]     | 514.0 x 319.0 x 54.0                                            |

| Article Name   | Order Number | Description                                        |
|----------------|--------------|----------------------------------------------------|
| POSL-RP-215-00 | MO-41-167    | POS-Line 21.5 IoT basic device open frame          |
| POSL-RP-215-01 | MO-41-172    | POS-Line 21.5 IoT with front bezel                 |
| POSL-RP-215-02 | MO-41-177    | POS-Line 21.5 IoT with front bezel and glass       |
| POSL-RP-215-03 | MO-41-182    | POS-Line 21.5 IoT with TrueFlat glass              |
| POSL-RP-215-04 | MO-41-187    | POS-Line 21.5 IoT with front bezel and PCAP TS     |
| POSL-RP-215-05 | MO-41-192    | POS-Line 21.5 IoT with TrueFlat glass with PCAP TS |

Further information on the individual options can be found in this document under - OPTIONS.

# WebPoster M3 - Website Player

**POS-Line 21.5**

|                                     |          |                                                                 |
|-------------------------------------|----------|-----------------------------------------------------------------|
| Interfaces                          |          | 1 x LAN, 2 x USB, 1 x HDMI, 1 x Line out, 1 x MicroSD card slot |
| Raspberry® PI                       |          | CM3+, 32 GB                                                     |
| Operating temperature               | [°C/ F°] | 0 ~ 45/ 32 ~ 113                                                |
| Power supply                        | [V]      | 12                                                              |
| Power consumption (typ.)            | [Watt]   | 23                                                              |
| Weight                              | [kg]     | 3.4                                                             |
| Dimensions basic device (W x H x D) | [mm]     | 514.0 x 319.0 x 54.0                                            |

WebPoster M3 is an industrial FHD network player to show websites. It is a special designed FORTEC Integrated OS for Artista IOT monitors.

Firmware is compatible with touchscreen applications.

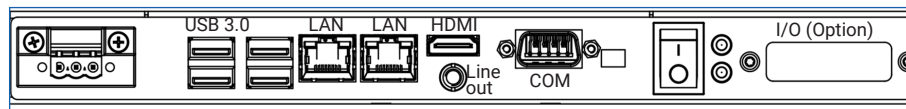
| Article Name   | Order Number | Description                                              |
|----------------|--------------|----------------------------------------------------------|
| POSL-WP-215-00 | MO-41-169    | POS-Line 21.5 WebPoster basic device open frame          |
| POSL-WP-215-01 | MO-41-174    | POS-Line 21.5 WebPoster with front bezel                 |
| POSL-WP-215-02 | MO-41-179    | POS-Line 21.5 WebPoster with front bezel and glass       |
| POSL-WP-215-03 | MO-41-184    | POS-Line 21.5 WebPoster with TrueFlat glass              |
| POSL-WP-215-04 | MO-41-189    | POS-Line 21.5 WebPoster with front bezel and PCAP TS     |
| POSL-WP-215-05 | MO-41-194    | POS-Line 21.5 WebPoster with TrueFlat glass with PCAP TS |

Further information on the individual options can be found in this document under - OPTIONS.

## IQ Celeron - PC Intel® Celeron®



POS-Line 21.5



|                                     |          |                                                                                    |
|-------------------------------------|----------|------------------------------------------------------------------------------------|
| Interfaces                          |          | 2 x Gigabit LAN, 4 x USB 3.0, 1 x HDMI, 1 x RS232/422/485                          |
| PC                                  |          | Intel® Celeron® J3455 (1,5GHz/2,3GHz), RAM: 4 GB DDR3L, Storage: min. 120 GB mSATA |
| Fan                                 |          | no                                                                                 |
| Operating temperature               | [°C/ F°] | 0 ~ 45/ 32 ~ 113                                                                   |
| Power supply                        | [V]      | 12 - 26                                                                            |
| Power consumption (typ.)            | [Watt]   | 28                                                                                 |
| Weight                              | [kg]     | 3.3                                                                                |
| Dimensions basic device (W x H x D) | [mm]     | 514.0 x 319.0 x 54.0                                                               |

| Article Name   | Order Number | Description                                       |
|----------------|--------------|---------------------------------------------------|
| POSL-IQ-215-00 | MO-41-170    | POS-Line 21.5 IQ basic device open frame          |
| POSL-IQ-215-01 | MO-41-175    | POS-Line 21.5 IQ with front bezel                 |
| POSL-IQ-215-02 | MO-41-180    | POS-Line 21.5 IQ with front bezel and glass       |
| POSL-IQ-215-03 | MO-41-185    | POS-Line 21.5 IQ with TrueFlat glass              |
| POSL-IQ-215-04 | MO-41-190    | POS-Line 21.5 IQ with front bezel and PCAP TS     |
| POSL-IQ-215-05 | MO-41-195    | POS-Line 21.5 IQ with TrueFlat glass with PCAP TS |

Further information on the individual options can be found in this document under - OPTIONS.

# Options

|                                               |      |                                 |
|-----------------------------------------------|------|---------------------------------|
| Name                                          |      | Front bezel                     |
| Finish                                        |      | Steel, powdered, black RAL 9005 |
| Weight                                        | [kg] | 0.70                            |
| Dimensions of monitor with option (W x H x D) | [mm] | 517.0 x 322.0 x 55.5            |

|                                               |      |                                         |                                                                        |
|-----------------------------------------------|------|-----------------------------------------|------------------------------------------------------------------------|
| Name                                          |      | Safety glass                            | TrueFlat glass                                                         |
| Finish                                        |      | Safety glass TSG, 3 mm anti glare       | Safety glass TSG, 3 mm anti glare, printed black passepartout RAL 9005 |
| IP grade                                      |      | Front IP 64 in combination with bezel** | Front IP 65**                                                          |
| Weight                                        | [kg] | 1.20                                    | 1.80                                                                   |
| Dimensions of monitor with option (W x H x D) | [mm] | 514.0 x 319.0 x 54.0                    | 538.0 x 343.0 x 60.0                                                   |

|                                               |      |                                   |                                                                        |
|-----------------------------------------------|------|-----------------------------------|------------------------------------------------------------------------|
| Name                                          |      | PCAP touch                        | TrueFlat glass with PCAP touch                                         |
| Bazel   Glass                                 |      | Safety glass TSG, 3 mm anti glare | Safety glass TSG, 3 mm anti glare, printed black passepartout RAL 9005 |
| Touch points                                  |      | 10                                |                                                                        |
| Touch technology                              |      | Projected capacitive              |                                                                        |
| IP grade                                      |      | Front IP 64 **                    | Front IP 65 **                                                         |
| Weight                                        | [kg] | 1.20                              | 1.80                                                                   |
| Dimensions of monitor with option (W x H x D) | [mm] | 514.0 x 319.0 x 54.0              | 538.0 x 343.0 x 60.0                                                   |

\*Glass and touch screens will reduce monitor brightness.

\*\* depending on the customer's installation

## POS-Line 21.5

### Bezel

Front bezel is a metal bezel for the open frame chassis and VESA mount.

### Glass | Touch\*



Safety glass is an accessory for the open frame chassis, in the picture with front bezel. It covers and protects the TFT-panel.

TrueFlat glass is a safety glass with round corners and passepartout for the open frame chassis.



# Accessories

| Product                | Order no. | Product description             |
|------------------------|-----------|---------------------------------|
| Additional RS 232 port | DS-91-823 | 2nd RS 232 port for IQ Celeron® |

| Product            | Order no. | Product description                                                                                             |
|--------------------|-----------|-----------------------------------------------------------------------------------------------------------------|
| VESA adapter plate | DS-91-797 | Adaption from VESA 200 x 100 to VESA 100 x 100 for all versions                                                 |
| Mounting brackets  | DS-91-356 | Set of two additional mounting brackets, not available for option Front bezel - two sets possible for 21.5 inch |

| Product            | Order no. | Product description                              |
|--------------------|-----------|--------------------------------------------------|
| Power supply 60 W  | NT-01-062 | 12V/ 5A power supply, max. op. temperature 45 °C |
| Power cord EU      | DB-07-225 | Power cord EU 1,8 m                              |
| Power cord UK      | DB-07-226 | Power cord UK 1,8 m                              |
| Power cord USA     | DB-07-238 | Power cord USA 1,8 m                             |
| Cable VGA          | KA-40-053 | VGA cable HDDS 15pin. male/ male 1.8 m           |
| Cable Display Port | DS-50-571 | Cable Display Port male/ male 2 m                |

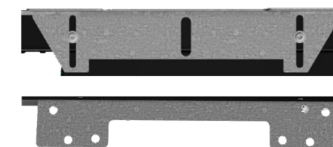
| Product              | Order no. | Product description                 |
|----------------------|-----------|-------------------------------------|
| WIN 10 IOT Celeron®  | DS-60-899 | Embedded operation system 2019 LTSC |
| OS IoT Raspberry® PI | DS-60-859 | for POS-Line IoT                    |

Windows 10 IoT Enterprise is a full version of Windows 10 that provides enterprise manageability and security for embedded devices and IoT solutions such as medical devices, industrial automation, measurement systems, and more. It's a binary equivalent of Windows 10 Enterprise, so you can use the same familiar development and management tools as you would on client PCs and laptops. The embedded version of Windows 10 IoT Enterprise is supported by Microsoft for at least 10 years.

## POS-Line 21.5

### Electronic

### Mount



Mounting brackets

### Power Supply

### Software

Our corporate network supports you worldwide with branches in Germany, Austria, Switzerland, Czech Republic, Benelux, the UK, the USA, and Egypt. For further information, please contact us:

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