

Smart Edge HMI

JSmart Series

Issue 48
2019/2020



JSmart Series

When aesthetics and functionality meet, the market changes



- from 5.0" to 21.5" TFT color display,
- up to a resolution 1920x1080 pixel with 16M colors, dimmable backlight
- PCAP Touchscreen Multitouch with swiping and zooming
- 10/100 Ethernet port PoE single cable for power and ethernet
- Wi-Fi Connection
- up to a ARM Cortex-A9 quad core CPU
- Full IP67 protection; ideal for mounting-arm installation right at the machine
- Mounts on 22 mm hole
- Includes environment and motion sensors
- Can be used with cable up to 100 m distance from source

Every once and a while a new product arrives that changes the market. It influences the perspective of all participants by encouraging them to question the status quo. And challenging that which has been done before is when innovation leads to a lasting difference being created.

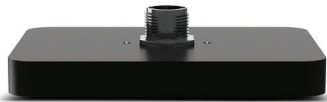
EXOR International would like to invite you on this journey of imagination and discovery by introducing the JSmart family of **Smart HMI Field Devices**. A product that seems as if from the consumer world of smartphones, tablets and PCs and yet a robust industrial grade product that will last multiple years.

We have worked for many years to redesign nearly 80% of the internal components on the board to accommodate an incredibly beautiful and slim casing. Looking at the product from any angle there is a sense of tranquillity and purity that belies the potent technology that lies beneath.

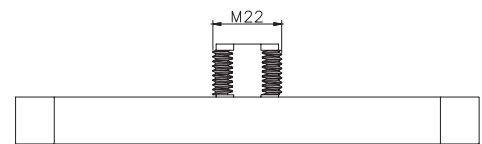
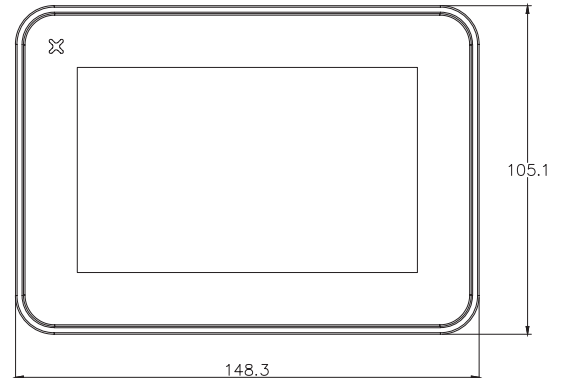
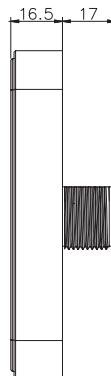
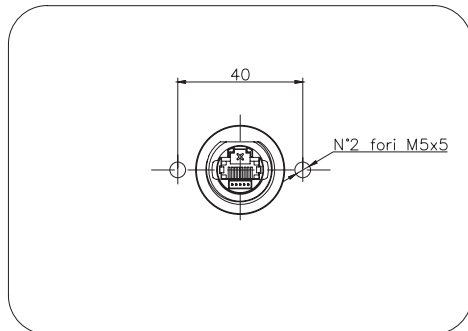
Up to a quad-core Cortex A9, multi-touch and robust glass front, a full set of motion and environment sensors and wifi interface all add up to provide you with a vast possibility of applications.

Challenge what has come before.

JSmart705 - Technical Data



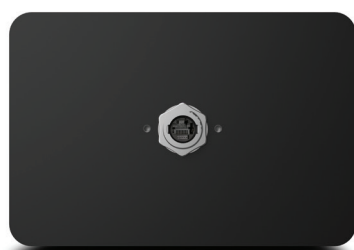
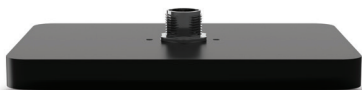
| System Resources | |
|------------------------------|---|
| Display - Colors | 5" TFT – 16M |
| Resolution | 800x480 |
| Brightness | 300 cd/m² typ. |
| Dimming | to 0% |
| Touchscreen | Projected capacitive – Multitouch |
| CPU | ARM Cortex-A9 dual core - 800 MHz |
| Operating System | Linux RT |
| Flash | 4 GB |
| RAM | 1 GB |
| FRAM | 64 KB |
| Real Time Clock, RTC Back-up | Yes |
| Interface | |
| Ethernet port | 10/100 PoE |
| USB port | 1 (Host V2.0, max. 500 mA, available with special cable) |
| LED | 1 RGB |
| Sensors | Temperature, 3-Axis Accelerometer |
| Buzzer | Yes |
| Ratings | |
| Power supply | IEEE 802.3af PoE |
| Power Consumption | 6 W |
| Battery | Yes (rechargeable) |
| Environment Conditions | |
| Operating Temp | -20° to +55° C (vertical installation) |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 (requires appropriate accessories and cables) |
| Dimensions and Weights | |
| Faceplate LxH | 148.3x105.1 mm (5.83x 4.13") |
| Depth D+T+T | 16.5 mm (0.06") |
| Weight | 0.5 Kg |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| UL | cULus: UL61010-1 / UL61010-2-201 |



Ordering Information

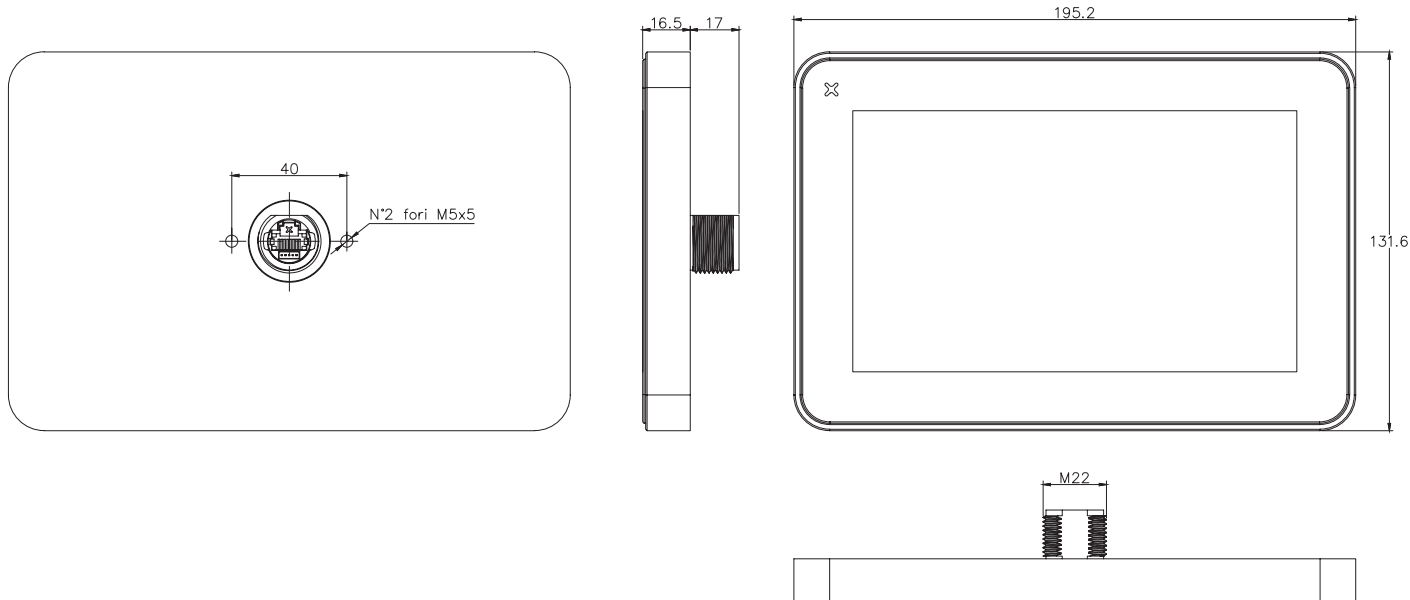
| Model | Part Number | Description |
|-----------|---------------|--|
| JSmart705 | +JS705BA0U5P1 | Field-ready HMI 5" TFT with PCAP touchscreen |

JSmart707 - Technical Data



| System Resources | |
|------------------------------|---|
| Display - Colors | 7" TFT – 16M |
| Resolution | 1024x600 |
| Brightness | 400 cd/m² typ. |
| Dimming | to 0% |
| Touchscreen | Projected Capacitive – Multitouch |
| CPU | ARM Cortex-A9 dual core - 800 MHz |
| Operating System | Linux RT |
| Flash | 4 GB |
| RAM | 1 GB |
| FRAM | 64 KB |
| Real Time Clock, RTC Back-up | Yes |
| Interface | |
| Ethernet port | 10/100 PoE |
| USB port | 1 (Host V2.0, max. 500 mA, available with special cable) |
| LED | 1 RGB |
| Sensors | Temperature, 3-Axis Accelerometer |
| Wi-Fi* | IEEE 802.11a/b/g |
| Buzzer | Yes |
| Ratings | |
| Power supply | IEEE 802.3af PoE |
| Power Consumption | 9 W |
| Battery | Yes (rechargeable) |
| Environment Conditions | |
| Operating Temp | -20° to +55° C (vertical installation) |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 (requires appropriate accessories and cables) |
| Dimensions and Weights | |
| Faceplate LxH | 195.2x131.6 mm (7.68x5.18") |
| Depth D+T+T | 16.5 mm (0.06") |
| Weight | 0.7 Kg |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| UL | cULus: UL61010-1 / UL61010-2-201 |

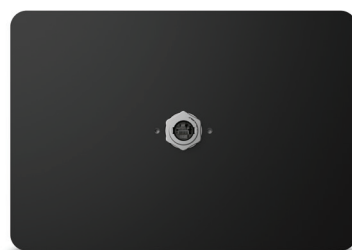
*Awaiting certifications in 2019



Ordering Information

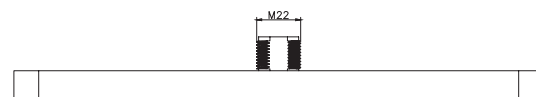
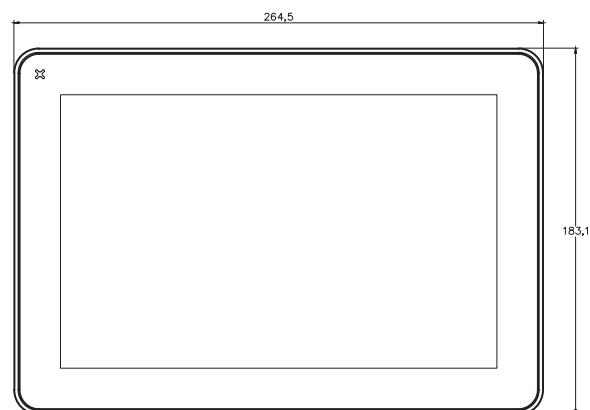
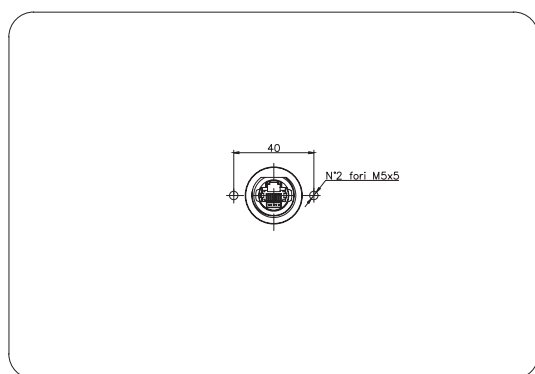
| Model | Part Number | Description |
|-----------|---------------|---|
| JSmart707 | +JS707BB1U5P1 | Field-ready HMI 7" TFT with PCAP touchscreen, Ethernet port PoE |

JSmart710 - Technical Data



| System Resources | |
|------------------------------|---|
| Display - Colors | 10.1" TFT – 16M |
| Resolution | 1280x800 |
| Brightness | 400 cd/m² typ. |
| Dimming | to 0% |
| Touchscreen | Projected Capacitive – Multitouch |
| CPU | ARM Cortex-A9 dual core - 800 MHz |
| Operating System | Linux RT |
| Flash | 4 GB |
| RAM | 1 GB |
| FRAM | 64 KB |
| Real Time Clock, RTC Back-up | Yes |
| Interface | |
| Ethernet port | 10/100 PoE |
| USB port | 1 (Host V2.0, max. 500 mA, available with special cable) |
| LED | 1 RGB |
| Sensors | Temperature, 3-Axis Accelerometer |
| Wi-Fi* | IEEE 802.11a/b/g |
| Buzzer | Yes |
| Ratings | |
| Power supply | IEEE 802.3af PoE |
| Power Consumption | 12 W |
| Battery | Yes (rechargeable) |
| Environment Conditions | |
| Operating Temp | -20° to +55° C (vertical installation) |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 (requires appropriate accessories and cables) |
| Dimensions and Weights | |
| Faceplate LxH | 264.5x183.1 mm (10.41x7.20") |
| Depth D+T+T | 16.5 mm (0.06") |
| Weight | 1.2 Kg |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| UL | cULus: UL61010-1 / UL61010-2-201 |

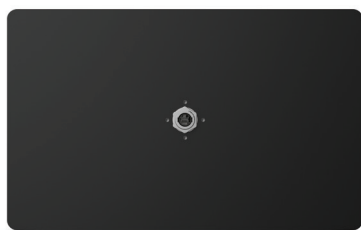
*Awaiting certifications in 2019



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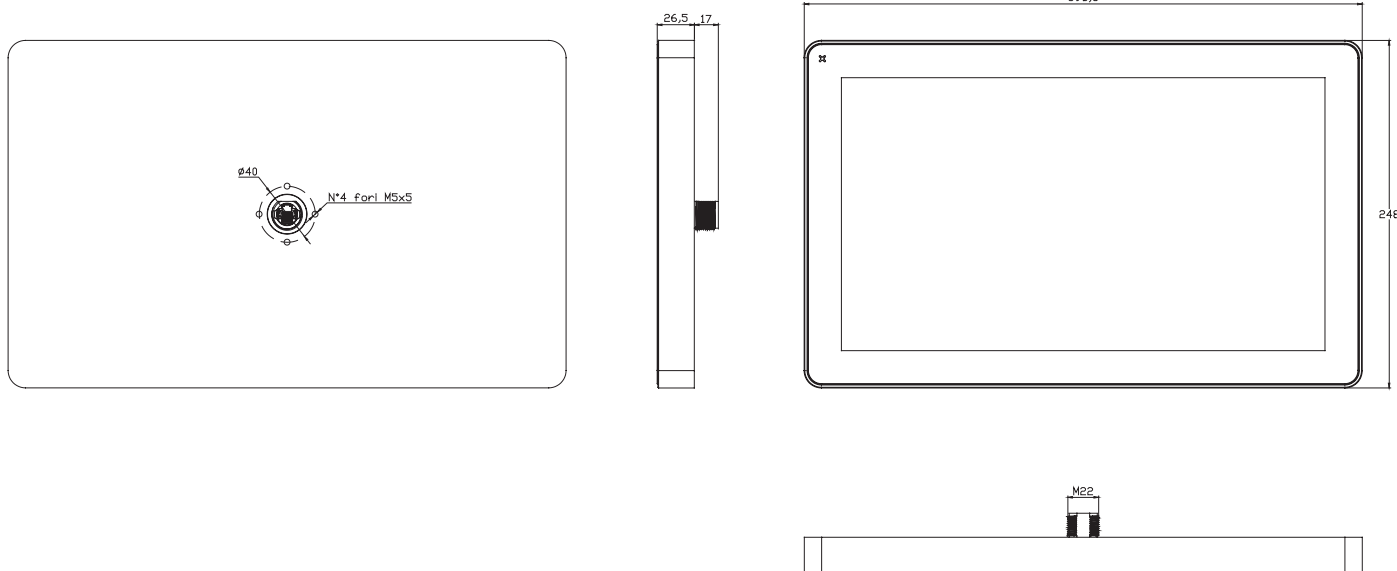
| Model | Part Number | Description |
|-----------|---------------|--|
| JSmart710 | +JS710BC1U5P1 | Field-ready HMI 10.1" TFT with PCAP touchscreen, Ethernet port PoE |

JSmart715 - Technical Data



| System Resources | |
|------------------------------|---|
| Display - Colors | 15.6" TFT – 16M |
| Resolution | 1366x768 |
| Brightness | 400 cd/m² typ. |
| Dimming | to 0% |
| Touchscreen | Projected Capacitive – Multitouch |
| CPU | ARM Cortex-A9 quad core - 800 MHz |
| Operating System | Linux RT |
| Flash | 8 GB |
| RAM | 2 GB |
| FRAM | 64 KB |
| Real Time Clock, RTC Back-up | Yes |
| Interface | |
| Ethernet port | 10/100 PoE |
| USB port | 1 (Host V2.0, max. 500 mA, available with special cable) |
| LED | 1 RGB |
| Sensors | Temperature, 3-Axis Accelerometer |
| Wi-Fi* | IEEE 802.11a/b/g |
| Buzzer | Yes |
| Ratings | |
| Power supply | IEEE 802.3at PoE+ |
| Power Consumption | 19 W |
| Battery | Yes (rechargeable) |
| Environment Conditions | |
| Operating Temp | -20° to +55° C (vertical installation) |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 (requires appropriate accessories and cables) |
| Dimensions and Weights | |
| Faceplate LxH | 398.6x248 mm (15.69x 9.76") |
| Depth D+T+T | 26.5 mm (1.04") |
| Weight | 4.0 Kg |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| UL | cULus: UL61010-1 / UL61010-2-201 |

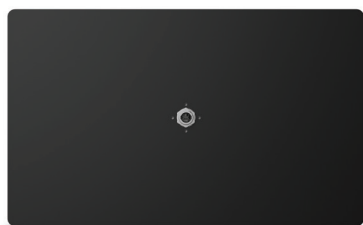
*Awaiting certifications in 2019



Ordering Information

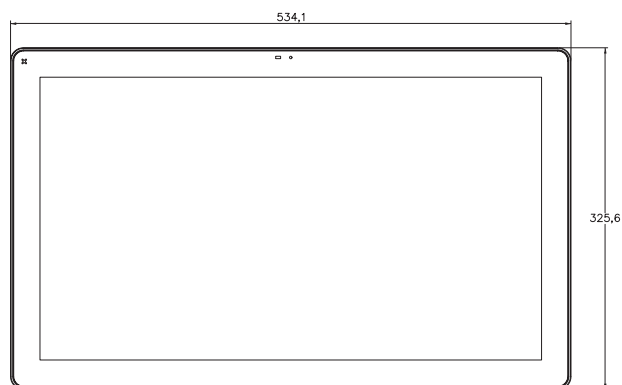
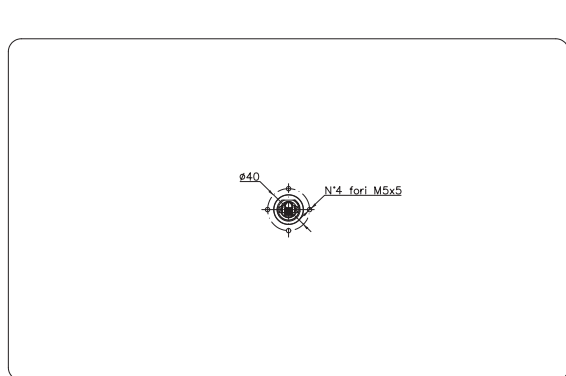
| Model | Part Number | Description |
|-----------|---------------|---|
| JSmart715 | +JS715CD1U5P1 | Field-ready HMI 15.6" 1366x768 TFT with PCAP touchscreen, Ethernet port PoE |

JSmart721 - Technical Data



| System Resources | |
|------------------------------|---|
| Display - Colors | 21.5" TFT – 16M |
| Resolution | 1920x1080 |
| Brightness | 400 cd/m² typ. |
| Dimming | to 0% |
| Touchscreen | Projected Capacitive – Multitouch |
| CPU | ARM Cortex-A9 quad core - 800 MHz |
| Operating System | Linux RT |
| Flash | 8 GB |
| RAM | 2 GB |
| FRAM | 64 KB |
| Real Time Clock, RTC Back-up | Yes |
| Interface | |
| Ethernet port | 10/100 PoE |
| USB port | 1 (Host V2.0, max. 500 mA, available with special cable) |
| LED | 1 RGB |
| Sensors | Temperature, 3-Axis Accelerometer |
| Wi-Fi* | IEEE 802.11a/b/g |
| Buzzer | Yes |
| Ratings | |
| Power supply | IEEE 802.3bt 4PPoE |
| Power Consumption | 32 W |
| Battery | Yes (rechargeable) |
| Environment Conditions | |
| Operating Temp | -20° to +55° C (vertical installation) |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 (requires appropriate accessories and cables) |
| Dimensions and Weights | |
| Faceplate LxH | 534.1x325.6 mm (21.02x 12.81") |
| Depth D+T+T | 26.5 mm (1.04") |
| Weight | 6.0 Kg |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| UL | cULus: UL61010-1 / UL61010-2-201 |

*Awaiting certifications in 2019



Ordering Information

| Model | Part Number | Description |
|-----------|---------------|--|
| JSmart721 | +JS721CE1U5P1 | Field-ready HMI 21.5" 1920x1080 TFT with PCAP touchscreen, Ethernet port PoE |



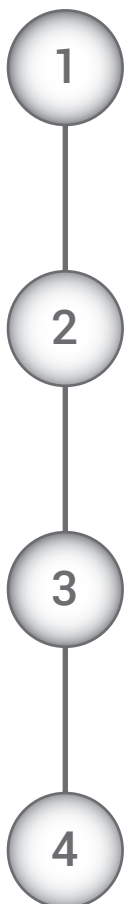
JSmart Applications

Choose the panel size and technical specifications applicable for your needs

Look through the Application examples provided to help with imagining how to use the JSmart

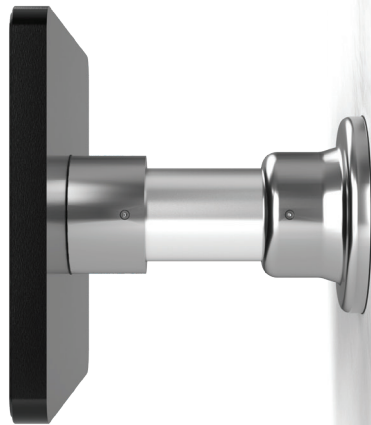
Consult the pages on brackets, cables and PoE

Enhance the experience of working each day with a new Smart HMI Field



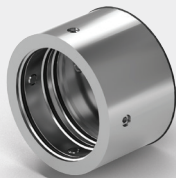
Tube Attachments for JSmart705, 707, 710

Designed for direct tube fitting or more complex curving is required this application will work with the 5,7 and 10 inch panels. IP67 is achievable with this application.



The components you need for this application:

Tube Bracket



Ordering Code: +JSBRU001

Tube Bracket



Ordering Code: +JSBRU002

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

Cable



Choose your solution on p.108

Tube Attachments for JSmart715 and 721

Designed for direct tube fitting or more complex curving is required this application will work with the 15 and 21 inch panels. IP67 is achievable with this application.



The components you need for this application:

Tube Bracket



Ordering Code: +JSBRU002

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

Cable



Choose your solution on p.108

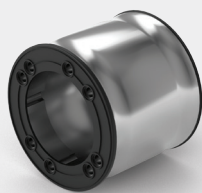
Wall Attachment for JSmart705, 707, 710

When a simple yet sturdy attachment to a wall or cabinet is required, this application is suitable. All without losing the importance the JSmart flat casing. IP67 is achievable with this application.



The components you need for this application:

Wall Bracket



Ordering Code: +JSBRU003

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

Cable



Choose your solution on p.108

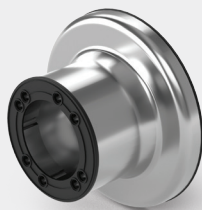
Wall Attachment for JSmart715 and 721

When a simple yet sturdy attachment to a wall or cabinet is required, this application is suitable. All without losing the importance the JSmart flat casing. IP67 is achievable with this application.



The components you need for this application:

Wall Bracket



Ordering Code: +JSBRU004

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

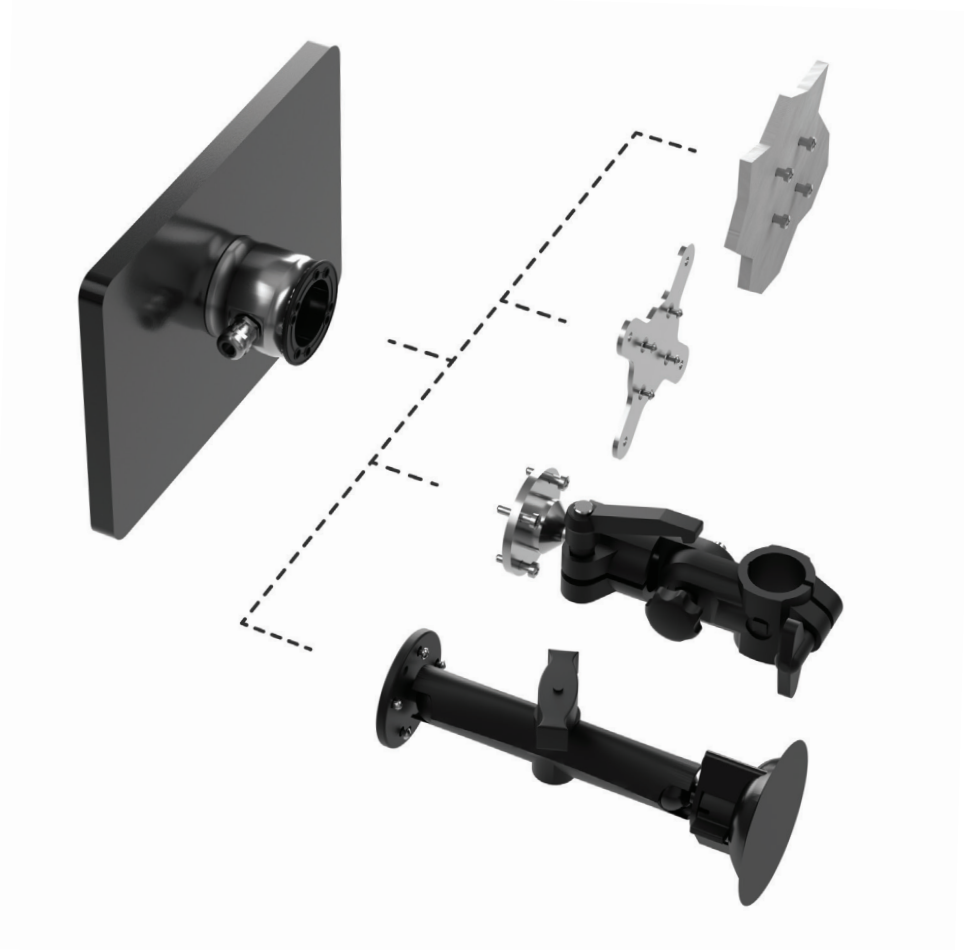
Cable



Choose your solution on p.108

Multi-use Attachments for JSmart705, 707, 710

With some universal types of arms the passage of the ethernet cable is impeded. We provide a side output with a special cable. IP67 is achievable with this application.



The components you need for this application:

**Multi-use Bracket
with cable gland**



Ordering Code: +JSBRU009

**JSmart VESA
for Adapter Bracket**



Ordering Code: +JSBRU008

**PoE Injector
DIN or Panel Mount**



Choose your solution on p.104

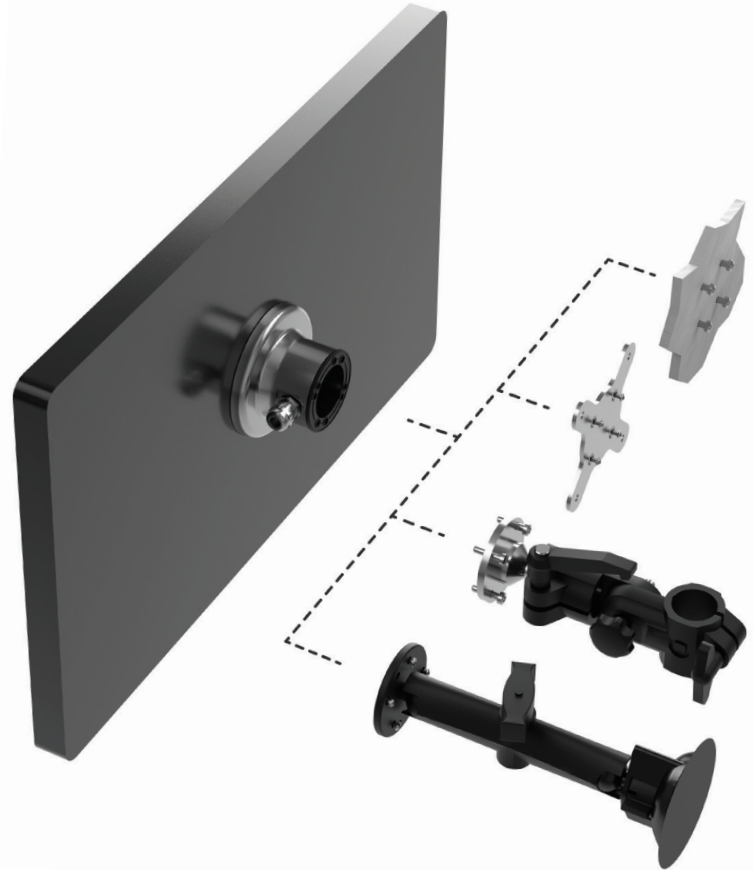
Ethernet Cable



Choose your solution on p.108

Multi-use Attachments for JSmart715 and 721

With some universal types of arms the passage of the ethernet cable is impeded. We provide a side output with a special cable. IP67 is achievable with this application.



The components you need for this application:

**Multi-use Bracket
with cable gland**



Ordering Code: +JSBRU010

**JSmart VESA
for Adapter Bracket**



Ordering Code: +JSBRU008

**PoE Injector
DIN or Panel Mount**



Choose your solution on p.104

Ethernet Cable



Choose your solution on p.108

Table Stand for JSmart all sizes

The JSmart is the quintessential “Stupid Web Browser”. Except that it can be used in the heat and dust of the factory floor and last for years. This desktop table stand and USB cable for mouse permits this use in a highly stylish manner. IP67 is achievable with this application.



The components you need for this application:

JSmart Table Stand



Ordering Code: +JSBRU006

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

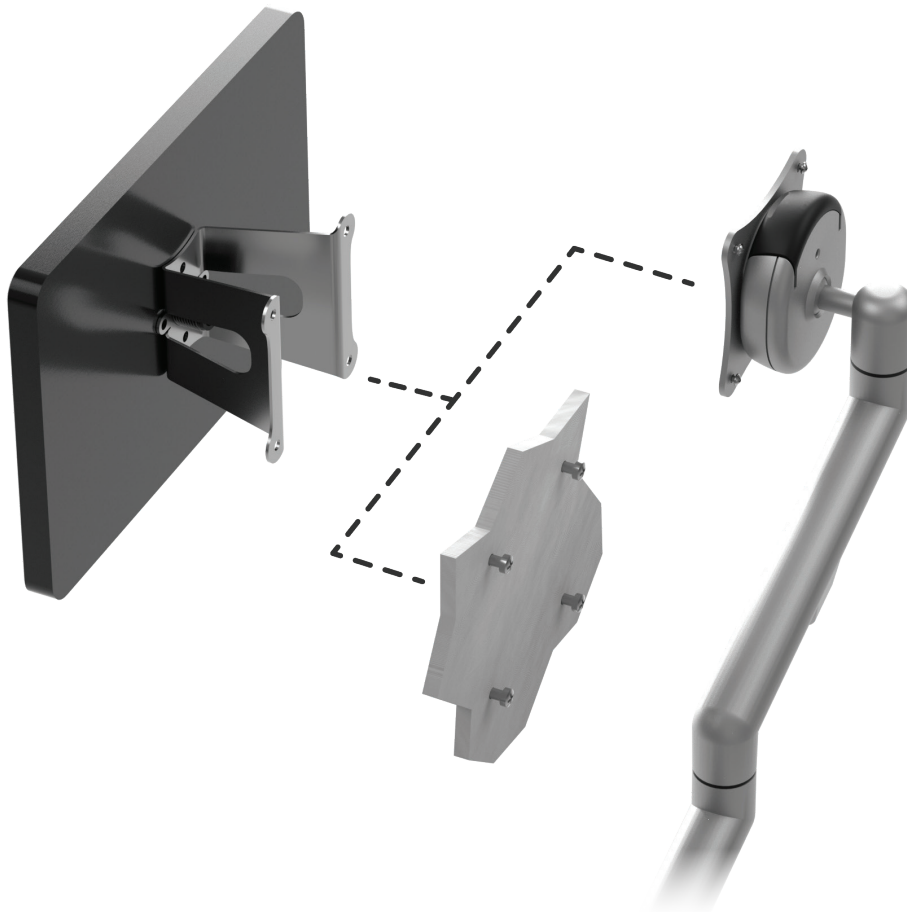
Cable PoE - USB



Ordering Code: +JSCAU003

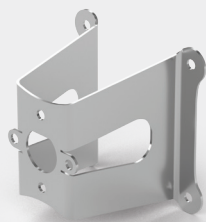
VESA Attachment for JSmart all sizes

In the very basic of situations where there is no need for the cable to be passed through the wall, this bracket can be used. IP67 is achievable with this application.



The components you need for this application:

JSmart VESA Bracket



Ordering Code: +JSBRU005

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

Cable



Choose your solution on p.108

Gooseneck Attachment for JSmart705, 707, 710

The gooseneck permits the JSmart to be used in many different situations, far away from the industrial environment.



The components you need for this application:

Gooseneck Bracket



Ordering Code: +JSBRU007

PoE Injector
DIN or Panel Mount



Choose your solution on p.104

JSmart Accessories

PoE Injectors

You can choose between the JSmart PoE Injector DIN rail mounting and the JSmart PoE Injector Panel mounting.

JSmart PoE Injector
DIN rail mounting



Ordering Code: +JSPOU0P1

JSmart PoE Injector
Panel mounting

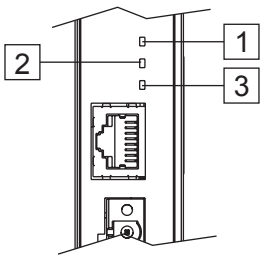


Ordering Code: +JSPOU0P2

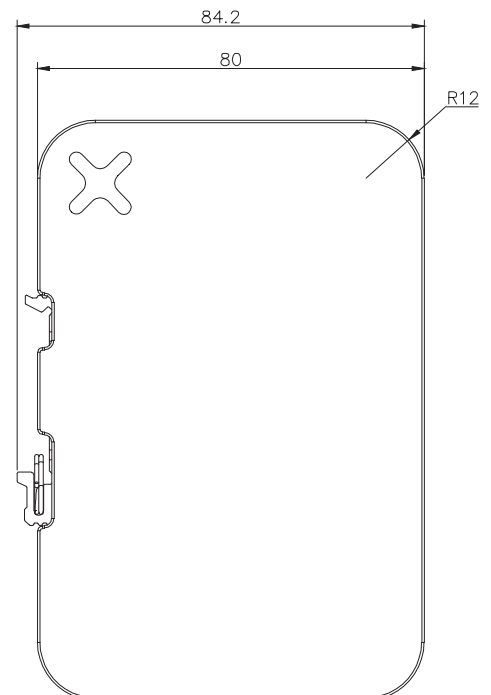
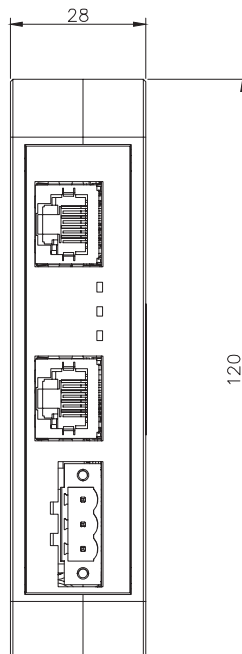
JSmart PoE Injector DIN rail mounting - Technical Data



| Features | |
|-----------------------------------|---|
| PoE Standard | IEEE 802.3af/at |
| Output Power | 36W max |
| DC Output Voltage | +54 VDC |
| Data rates | 10/100 |
| Interface | |
| Ethernet IN port | 10/100 |
| Ethernet OUT port | 10/100 PoE |
| Diagnostic LEDs | 3 |
| Ratings | |
| Power Supply | +24 VDC (18-32 VDC) |
| Current Consumption | 2.0 A at 24 VDC (max.) |
| Efficiency | 80% typ |
| Over Voltage / Current Protection | Yes |
| Short Circuit Protection | Yes |
| Reverse Polarity | Yes |
| Environment Conditions | |
| Operating Temp | -20°C to +55° C |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP20 EN60529 |
| Dimensions and Weights | |
| Faceplate LxH | 80x120 mm |
| Depth D | 28 mm |
| Weight | 350 g |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| cULus | cULus: UL61010-1 / UL61010-2-201 |



| LED | Color | Specifications |
|-----|-----------------|--------------------------|
| 1 | Red | Fault |
| 2 | Green | Status: PoE running |
| | Red, slow blink | Status: Over-load |
| | Red, fast blink | Status: Over-temperature |
| 3 | Green | Power ON |



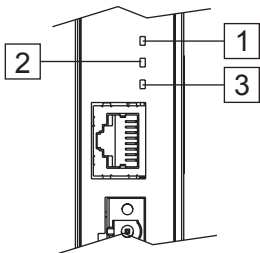
Ordering Information

| Model | Part Number | Description |
|------------|-------------|---------------------------------------|
| JSmart PoE | +JSPOU0P1 | JSmart PoE Injector DIN rail mounting |

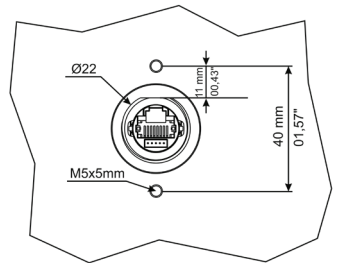
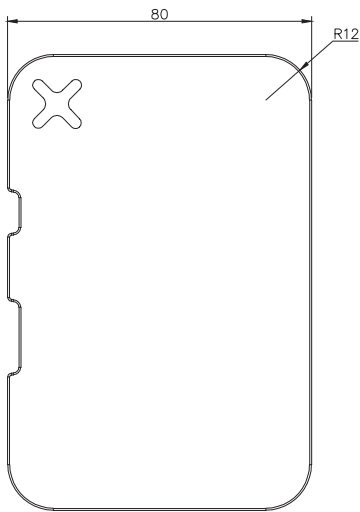
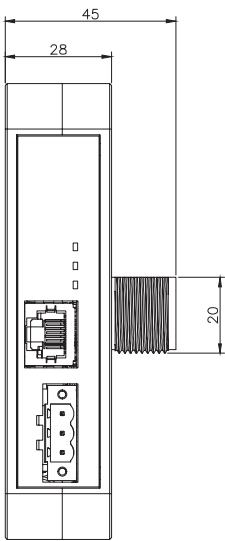
JSmart PoE Injector panel mounting - Technical Data



| Features | |
|-----------------------------------|---|
| PoE Standard | IEEE 802.3af/at |
| Output Power | 36W max |
| DC Output Voltage | +54 VDC |
| Data rates | 10/100 |
| Interface | |
| Ethernet IN port | 10/100 |
| Ethernet OUT port | 10/100 PoE |
| Diagnostic LEDs | 3 |
| Ratings | |
| Power Supply | +24 VDC (18-32 VDC) |
| Current Consumption | 2.0 A at 24 VDC (max.) |
| Efficiency | 80% typ |
| Over Voltage / Current Protection | Yes |
| Short Circuit Protection | Yes |
| Reverse Polarity | Yes |
| Environment Conditions | |
| Operating Temp | -20°C to +55°C |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 EN60529 front cabinet |
| Dimensions and Weights | |
| Faceplate LxH | 80x120 mm |
| Depth D | 28 mm |
| Weight | 350 g |
| Approvals | |
| CE | Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment |
| cULus | cULus: UL61010-1 / UL61010-2-201 |



| LED | Color | Specifications |
|-----|-----------------|--------------------------|
| 1 | Red | Fault |
| 2 | Green | Status: PoE running |
| | Red, slow blink | Status: Over-load |
| | Red, fast blink | Status: Over-temperature |
| 3 | Green | Power ON |



Ordering Information

| Model | Part Number | Description |
|------------|-------------|------------------------------------|
| JSmart PoE | +JSP0U0P2 | JSmart PoE Injector Panel mounting |

Tube Brackets

Tube Bracket

37 mm distance from tube, 48 mm tube fitting, all gasket and screws included, IP67 rated



Ordering Code: +JSBRU001

Tube Bracket

50 mm distance from tube, 48 mm tube fitting, all gasket and screws included, IP67 rated

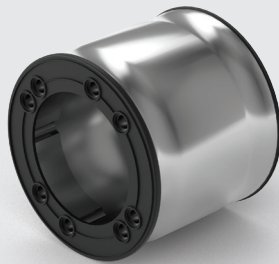


Ordering Code: +JSBRU002

Brackets for JSmart 705, 707, 710

Wall Bracket

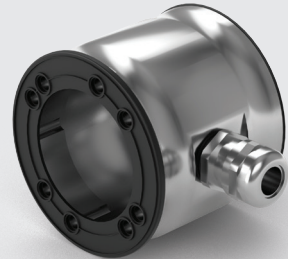
50 mm distance from wall, all gasket and screws included, IP67 rated



Ordering Code: +JSBRU003

Multi-use Bracket with cable gland

50 mm distance from wall, all gasket and screws included, IP67 rated

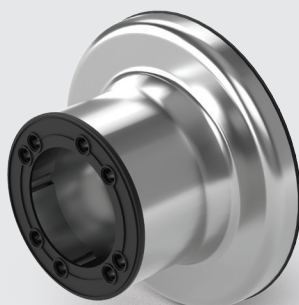


Ordering Code: +JSBRU009

Brackets for JSmart 715, 721

Wall Bracket

50 mm distance from wall, all gasket and screws included, IP67 rated



Ordering Code: +JSBRU004

Multi-use Bracket with cable gland

50 mm distance from wall, all gasket and screws included, IP67 rated



Ordering Code: +JSBRU010

Cables

Cable 90° PoE - 5 m



Ordering Code: +JSCAU001

Cable PoE - USB - 5 m



Ordering Code: +JSCAU003

Cable PoE - 5 m



Ordering Code: +JSCAU002

Cable PoE - 5 m

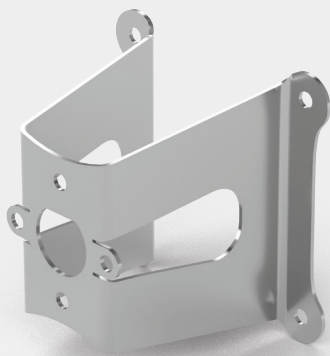


Ordering Code: +JSCAU004

Others

JSmart VESA Bracket

70 mm from wall, all gasket and screws included



Ordering Code: +JSBRU005

JSmart Table Stand

use for desktop, 51.7 mm high, perfect height for ease of use



Ordering Code: +JSBRU006

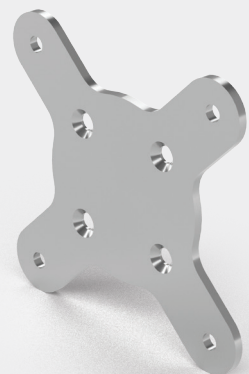
Gooseneck Bracket

570 mm height, multi plane flexibility, IP20 rated



Ordering Code: +JSBRU007

JSmart VESA for Adapter Bracket



Ordering Code: +JSBRU008



Your Problem,
Your Solution,
Our Technology.