

# HMI Series

Industrial Panel PC, Web Panel & Monitors



- ▶ **Application-ready**  
All-in-one Panel PCs and Monitors for multiple applications
- ▶ **Versatile and User-friendly**  
Wealth of display sizes, formats and touch options
- ▶ **Industrial Grade**  
Robust, reliable and maintenance-free

# HMI Series

Industrial Panel PC & Monitors

Kontron's Panel PCs and Monitors offer a wide range of processor capacities and display sizes. Displays in widescreen or regular format from 5.0" to 23.8" and touch functionalities (PCAP, IR or resistive) increase intuitive usability. Fieldbus interfaces, integrated web server/browser and CODESYS® Soft-PLC as an option enable flexible visualization solutions.

## ▶ FlatClient/FlatView Industrial HMI - Flexibility in size, format and performance

- ▶ Display sizes in regular or wide format (7.0" – 23.8")
- ▶ Front options: PCAP touch, resistive touch or protection glass
- ▶ Panel PC: ECO version (Intel Atom®) and PRO version (Intel® Core™ i7) available
- ▶ Industrial grade – robust, reliable, versatile and maintenance-free
- ▶ Flexible mounting options: Built-in version or stand-alone/VESA in a full metal housing



## ▶ KPanel S All-in-one Panel PC for Visualization and Control on Machines, Devices and Plants

- ▶ Easy installation and fault-free operation for lowest TCO
- ▶ Perfect ergonomics with excellent readability and operability
- ▶ Flexible compute performance with Intel® N-series, Intel® Core™ i3 N-series and Intel Atom® X7000 series up to 13th Gen Intel® Core™ processors
- ▶ Ready for application software or integrated web panel functionality



## ▶ WP Web Panel/CP Control Panel Scalable Panel PCs with NXP Arm® Single/Dual/Quad Core processors

- ▶ Flexible performance with NXP Arm® i.MX8M Plus 4-Core, Arm® i.MX8M mini 4-Core or Arm® i.MX6 Single/Dual Core processors
- ▶ Capacitive multi-touch
- ▶ Display sizes: 5.0", 7.0", 10.1" and 15.6" versions
- ▶ IP65 aluminium front bezel, optional stainless steel
- ▶ QIWI-Software-Toolkit improves performance and simplifies configuration
- ▶ Optional MicroBrowser, requires very low performance and fits perfectly to CODESYS® web server
- ▶ CODESYS® Soft-PLC, various fieldbuses



## ▶ FlatClient/FlatView HYG Industrial HMI with IP69K for high hygiene standards

- ▶ Designed for high hygiene standards following EHEDG guidelines
- ▶ Stainless steel housing with IP69K protection (support arm version)
- ▶ Suited for washdown applications (e.g. high-pressure cleaning)
- ▶ Scalable performance from Intel Atom® to Intel® Core™ i5
- ▶ Smooth, seamless display surface for perfect cleanability
- ▶ Flexible mounting with support arm or VESA



## ▶ Open Frame Monitor Industrial Open Frame Monitor for max. flexibility

- ▶ Industrial grade – robust, reliable, versatile and maintenance-free
- ▶ Light-weight open frame monitor for easy installation in existing fronts
- ▶ TFT LCD display: 15"/17"/19"
- ▶ Modular configuration, e.g.:  
Touch Screen: capacitive, resistive or protection glass  
Front: diverse options, e.g. aluminium, stainless steel, for 19" rackmount etc.



## ▶ QIWI Software Toolkit

- ▶ Basic software from the WP series transforms Kontron Panel PCs — including FlatClient, FlatClient HYG, and KPanel S — into powerful web panels
- ▶ All Kontron Panel PCs can be flexibly operated with either Windows or Linux as a platform for individual application software or alternatively configured as a ready-to-use web panel
- ▶ QIWI is based on Chromium and runs on a Debian Linux system, enabling modern, secure, and high-performance web visualization



Learn more about Kontron's Panel PCs and Monitors:  
[www.kontron.com/products/systems/panel-pc](http://www.kontron.com/products/systems/panel-pc)  
[www.kontron.com/products/systems/monitors](http://www.kontron.com/products/systems/monitors)

## About Kontron

Kontron AG is a leading IoT technology company. For more than 20 years, Kontron has been supporting companies from a wide range of industries to achieve their business goals with intelligent solutions. From automated industrial operations, smarter and safer transport to advanced communications, connectivity, medical, and energy solutions, the company delivers technologies that add value for its customers. With the acquisition of Katek SE in early 2024, Kontron significantly strengthens its portfolio with the new GreenTec division, focusing on solar energy and eMobility, and grows to around 7,000 employees in over 20 countries worldwide. Kontron is listed on the SDAX® and TecDAX® of the German Stock Exchange.

For more information, please visit: [www.kontron.com](http://www.kontron.com)

## About the Intel® Partner Alliance

From modular components to market-ready systems, Intel and the over 1,000+ global member companies of the Intel® Partner Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance members to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

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## Global Headquarters

Kontron Europe GmbH

Gutenbergstraße 2  
85737 Ismaning, Germany  
Tel.: + 49 821 4086-0  
[info@kontron.com](mailto:info@kontron.com)

[www.kontron.com](http://www.kontron.com)

# HMI Series

Industrial Panel PC,  
Web Panel & Monitors



CLIENT = PANEL PC VERSIONS  
VIEW = MONITOR VERSIONS

## FlatClient/FlatView

<b>DISPLAY SIZE/RESOLUTION</b> WF=WIDE FORMAT RF=REGULAR FORMAT	7.0" (WF): 800x480 10.1" (WF): 1280x800 12.1" (RF): 1024x768 12.1" WXGA (WF): 1280x800 15.0" (RF): 1024x768 15.6" (WF): 1366x768*/1920x1080 18.5" (WF): 1366x768*/1920x1080 19.0" (RF): 1280x1024 21.5" (WF): 1920x1080 23.8" (WF): 1920x1080
<b>FRONT OPTIONS TOUCH</b>	Projected capacitive touch Resistive touch* Protection glass
<b>PROCESSOR</b> (Panel PC version)	<b>FlatClient ECO-APL:</b> Intel® Celeron® Prozessor J3455 <b>FlatClient ECO-EKL:</b> Intel® Celeron® J6413 Intel Atom® x6212RE, Intel Atom® x6425RE <b>FlatClient ECO-ADN:</b> Intel® N97, Intel® Core i3-N305 <b>FlatClient ECO-AML:</b> Intel Atom® x7211RE/Atom® x7433RE/Atom® x7835RE  <b>FlatClient PRO-WKL:</b> Intel® Core™ i5-8365UE, Intel® Celeron® 4305UE <b>FlatClient PRO-TGL:</b> Intel® Core™ i5-1145G7E/i7-1185G7E, Intel® Celeron® 6305E <b>FlatClient PRO-RPL:</b> Intel® U300E Intel® Core™ i3-1315UE / i5-1345UE / i7-1365UE
<b>MOUNTING</b>	Panel mount, VESA, stand-alone
<b>STANDARD INTERFACES</b>	<b>FlatClient ECO-APL:</b> 2x GbE, 1x HDMI, 1x DisplayPort, 4x USB 3.0 <b>FlatClient ECO-EKL:</b> 2x 2.5 GbE, 2x DisplayPort, 2x USB 3.2, 2x USB 2.0 <b>FlatClient ECO-AML/ADN:</b> 2x 2.5 GbE, 2x DisplayPort, 2x USB 3.2 (Type A), 1x USB 3.2 (DP, Type C), 1x USB 2.0  <b>FlatClient PRO-WKL:</b> 2x GbE, 2x DP++, 4x USB 3.1 <b>FlatClient PRO-TGL:</b> 1x 2.5GbE, 1x GbE, 2x DP, 4x USB 3.2 <b>FlatClient PRO-RPL:</b> 2x 2.5GbE, 2x DP, 4x USB 3.2  <b>FlatView:</b> DVI, DP, USB 2.0 12-30 VDC or PoE*
<b>WIRELESS INTERFACES (OPT.)</b>	RFID, WiFi
<b>POWER</b>	12 - 30 VDC
<b>PROTECTION CLASS</b>	IP65 front, IP20 rear
<b>COOLING</b>	Fanless
<b>CERTIFICATIONS</b>	CE, UL
<b>OPERATING TEMPERATURE</b>	0 °C to +50 °C
<b>SHOCK</b>	15 G 11 ms duration (half sine)
<b>VIBRATION</b>	10-500 Hz: 1G/3 axis
<b>ALTITUDE</b>	3000 m
<b>SUPPORTED OS</b>	Win 10 IoT, Win 11 IoT, Linux, QIWI Toolkit (Web Panel), KontronOS*

KontronOS: Hardened and secure Linux®-based operating system/on request

\* on request

QIWI-Toolkit: For web panel operation



## KPanel S

15.6" (WF): 1920x1080 18.5" (WF)*: 1920x1080 21.5" (WF): 1920x1080 23.8" (WF)*: 1920x1080	1920x1080 1920x1080 1920x1080 1920x1080
Projected capacitive touch  Protection glass*	Projected capacitive touch (PCAP)  Protection glass
<b>KPanel S-ADN</b> Intel® N97, Intel® Core™ i3-N305  <b>KPanel S-AML:</b> Intel Atom® x7211RE/Atom® x7433RE/Atom® x7835RE  <b>KPanel S-RPL:</b> Intel® U300E Intel® Core™ i3-1315UE / i5-1345UE / i7-1365UE	<b>ECO Line:</b> Intel® Celeron® J3455  <b>PRO Line:</b> Intel® Core™ i5-7300U, Intel® Core™ i5-8365UE  <b>FlatView HYG:</b> DVI, DP, USB 2.0
Support arm, VESA	Support arm, VESA
<b>KPanel S-AML/ADN</b> 2x 2.5 GbE, 2x DisplayPort, 2x USB 3.2 (Type A), 1x USB 3.2 (DP, Type C), 1x USB 2.0  <b>KPanel S-RPL</b> 2x 2.5GbE, 4x USB 3.2, 2x DP	<b>ECO Line:</b> 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0  <b>PRO Line:</b> Intel® Core™ i5-7300U/Intel® Celeron® 3965U: 2x GbE, 1x HDMI, 1x Display Port, 4x USB 3.0 Intel® Core™ i5-8365UE/Intel® Celeron® 4305UE: 2x GbE, 2x DP++, 4x USB 3.1
RFID, WiFi	RFID, WiFi
12 - 30 VDC	12-30 VDC
IP65 front	IP69K (support arm), IP67 (VESA)
Fanless	Fanless
CE, UL	CE, UL
0 °C to +50 °C	0 °C to +50 °C
15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
3000 m	3000 m
Win 10 IoT, Win 11 IoT, Linux, QIWI Toolkit (Web Panel), KontronOS*	Windows 10 IoT, Linux

\* on request

\* sizes on request



## FlatClient/FlatView STS

10.1" (WF)*: 1280x800 12.1" (RF)*: 1024x768 12.1" WXGA (WF)*: 1280x800 15.0" (RF)*: 1024x768 15.6" (WF)*: 1366x768*/1920x1080 18.5" (WF)*: 1366x768*/1920x1080 19.0" (RF)*: 1280x1024 21.5" (WF)*: 1920x1080 23.8" (WF)*: 1920x1080	1280x800 1024x768 1280x800 1024x768 1366x768*/1920x1080 1366x768*/1920x1080 1280x1024 1920x1080 1920x1080
Projected capacitive touch (PCAP)  Protection glass	Projected capacitive touch (PCAP) Resistive touch Protection glass
<b>ECO Line:</b> Intel® Celeron® J3455  <b>PRO Line:</b> Intel® Core™ i5-7300U, Intel® Core™ i5-8365UE	- Panel PC optional on project base
Panel mount	Panel mount
<b>ECO Line:</b> 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0  <b>PRO Line:</b> Intel® Core™ i5-7300U: 2x GbE, 1x HDMI, 1x Display Port, 4x USB 3.0 Intel® Core™ i5-8365UE: 2x GbE, 2x DP++, 4x USB 3.1	1x VGA, 1x DVI or 1x VGA, 1x DVI, 1x DP optional: Video Interfaces HDMI, VGA and 1x FBAS Touch controller with serial Port or USB
RFID, WiFi	-
12-30 VDC	12 V DC/24 VDC (12 - 30 VDC)
IP65 front, IP20 rear	IP65 front, IP20 rear
Fanless	Fanless
CE, UL	CE
0 °C to +50 °C	0 °C to +45 °C
15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
3000 m	3000 m
Windows 10 IoT, Linux	Windows 7, Windows 8.1 incl. Embedded, Windows 10 IoT, Linux

\* sizes on request



## Open Frame Monitor

15.0" (RF): 1024x768 17.0" (RF): 1280x1024 19.0" (RF): 1280x1024	1024x768 1280x1024 1280x1024
Projected capacitive touch (PCAP) Resistive touch Protection glass	Projected capacitive touch (PCAP) Resistive touch Protection glass
- Panel PC optional on project base	- Panel PC optional on project base
Panel mount	Panel mount
1x VGA, 1x DVI or 1x VGA, 1x DVI, 1x DP optional: Video Interfaces HDMI, VGA and 1x FBAS Touch controller with serial Port or USB	1x VGA, 1x DVI or 1x VGA, 1x DVI, 1x DP optional: Video Interfaces HDMI, VGA and 1x FBAS Touch controller with serial Port or USB
-	-
12-30 VDC	12 V DC/24 VDC (12 - 30 VDC)
IP65 front, IP20 rear	IP65 front, IP20 rear
Fanless	Fanless
CE, UL	CE
0 °C to +50 °C	0 °C to +45 °C
15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
3000 m	3000 m
Windows 10 IoT, Linux	Windows 7, Windows 8.1 incl. Embedded, Windows 10 IoT, Linux



## WP Web Panel

5.0" (WF): 800x480 (WP 6x only) 7.0" (WF): 1024x600 10.1" (WF): 1280x800 15.6" (WF): 1366x768 15.6" FHD (WF): 1920x1080 (WP 6x only)	800x480 (WP 6x only) 1024x600 1280x800 1366x768 1920x1080 (WP 6x only)
Projected capacitive touch (PCAP)	Projected capacitive touch (PCAP)
NXP Arm® i.MX6 Single/Dual Core, 800 MHz (WP 3x) NXP Arm® i.MX8M Mini Quad Core, 1.6 GHz (WP 4x) NXP Arm® i.MX8M Plus Quad Core, 1.6 GHz (WP 6x)	NXP Arm® i.MX6 Single/Dual Core, 800 MHz (CP 3x) NXP Arm® i.MX8M Plus Quad Core, 1.6 GHz (CP 6x)
Panel mount	Panel mount
<b>NXP Arm® i.MX6 (WP 3x):</b> 2x Ethernet 10/100, 2x USB 2.0  <b>NXP Arm® i.MX8M Mini (WP 4x):</b> 1x GbE, 2x USB 2.0, optional: + 1x ETH 10/100, + RS232  <b>NXP Arm® i.MX8M Plus (WP 6x):</b> 1x GbE, 2x USB 2.0, optional: + 1x GbE, + RS485, + GPO	<b>NXP Arm® i.MX6 (CP 3x):</b> 2x Ethernet 10/100 independent , 2x USB 2.0, 1x CAN (isol.), 1x RS485 (isol.), 2x RS232, optional: + 1x CAN  <b>NXP Arm® i.MX8M Plus (CP 6x):</b> 2x GbE (1x TSN support), 2x USB 2.0, 1x CAN-FD (isol.), 1x RS485 (isol.), 1x RS232, optional: + 1x CAN FD (isol.), + 1x RS485 (isol.) + M.2 (Key E, B)
-	-
24 VDC +/- 20 % or POE (WP 6x only)	24 VDC +/-20 %
IP65 aluminum front, IP20 rear	IP65 (aluminium front), IP20 rear
Fanless	Fanless
CE, UL*, cUL*	CE, UL*, cUL*
0 °C to +55 °C (WP 6x: optional -20 °C ... +55 °C)	0 °C to +55 °C (CP 6x: optional -20 °C ... +55 °C)
15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
3000 m	3000 m
Embedded Linux (Yocto Distribution) Standard HTML-5 Browser: QIWI Toolkit Optional Protocols: EtherCAT, Modbus TCP/RTU, Profinet, Ethernet IP, CANopen, OPC UA, MQTT	Embedded Linux (Yocto Distribution), QIWI Toolkit Optional Soft-PLC: CODESYS® V3 Optional Protocols: EtherCAT, Modbus TCP/RTU, Profinet, Ethernet IP, CANopen, OPC UA, MQTT

\* WP 6x and WP 4x partially



## CP Control Panel

7.0" (WF): 1024x600 10.1" (WF): 1280x800 15.6" (WF): 1366x768 15.6" FHD (WF): 1920x1080 (CP 6x only)	1024x600 1280x800 1366x768 1920x1080 (CP 6x only)
Projected capacitive touch (PCAP)	Projected capacitive touch (PCAP)
NXP Arm® i.MX6 Single/Dual Core, 800 MHz (CP 3x) NXP Arm® i.MX8M Plus Quad Core, 1.6 GHz (CP 6x)	NXP Arm® i.MX6 Single/Dual Core, 800 MHz (CP 3x) NXP Arm® i.MX8M Plus Quad Core, 1.6 GHz (CP 6x)
Panel mount	Panel mount
<b>NXP Arm® i.MX6 (CP 3x):</b> 2x Ethernet 10/100 independent , 2x USB 2.0, 1x CAN (isol.), 1x RS485 (isol.), 2x RS232, optional: + 1x CAN  <b>NXP Arm® i.MX8M Plus (CP 6x):</b> 2x GbE (1x TSN support), 2x USB 2.0, 1x CAN-FD (isol.), 1x RS485 (isol.), 1x RS232, optional: + 1x CAN FD (isol.), + 1x RS485 (isol.) + M.2 (Key E, B)	<b>NXP Arm® i.MX6 (CP 3x):</b> 2x Ethernet 10/100 independent , 2x USB 2.0, 1x CAN (isol.), 1x RS485 (isol.), 2x RS232, optional: + 1x CAN  <b>NXP Arm® i.MX8M Plus (CP 6x):</b> 2x GbE (1x TSN support), 2x USB 2.0, 1x CAN-FD (isol.), 1x RS485 (isol.), 1x RS232, optional: + 1x CAN FD (isol.), + 1x RS485 (isol.) + M.2 (Key E, B)
-	-
24 VDC +/- 20 %	24 VDC +/-20 %
IP65 (aluminium front), IP20 rear	IP65 (aluminium front), IP20 rear
Fanless	Fanless
CE, UL*, cUL*	CE, UL*, cUL*
0 °C to +55 °C (CP 6x: optional -20 °C ... +55 °C)	0 °C to +55 °C (CP 6x: optional -20 °C ... +55 °C)
15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
3000 m	3000 m
Embedded Linux (Yocto Distribution), QIWI Toolkit Optional Soft-PLC: CODESYS® V3 Optional Protocols: EtherCAT, Modbus TCP/RTU, Profinet, Ethernet IP, CANopen, OPC UA, MQTT	Embedded Linux (Yocto Distribution), QIWI Toolkit Optional Soft-PLC: CODESYS® V3 Optional Protocols: EtherCAT, Modbus TCP/RTU, Profinet, Ethernet IP, CANopen, OPC UA, MQTT

\* CP 6x