

# 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



### ▶ MediClient/MediView Medical grade Panel PC/Monitor

- ▶ Easy connection to hospital IT, connectivity wireless (WiFi, BT) or via isolated Ethernet interfaces and isolated serial ports
- ▶ Anti-glare and anti-fingerprint surface finish for best readability
- ▶ Seamless, flush all-glass front for best cleanability
- ▶ Robust powder coated stainless steel housing
- ▶ PCAP touch operation even with medical gloves
- ▶ Customization such as branding, I/Os, computing performance, software integration, etc.
- ▶ IEC 60601-1 compliant



### ▶ 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



### ▶ FlatClient MAR Robust and flexibly configurable Panel PC for maritime applications

- ▶ EN 60945 and DNVGL compliant (control room, accommodation, bridge)
- ▶ Scalable performance from Intel Atom® to Intel® Core™ i5
- ▶ Salt spray tested according to IEC 60068-2-52
- ▶ Display sizes ranging from 10.1" to 21.5"
- ▶ Glare-free and completely flush glass front
- ▶ Remotely controllable backlighting for excellent readability and clear visibility



### ▶ 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.



### ▶ 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



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

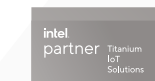
Kontron AG is a leading IoT technology company. For more than 20 years, Kontron has been supporting companies from a wide range of industries to achieve their business goals with intelligent solutions. From automated industrial operations, smarter and safer transport to advanced communications, connectivity, 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 8,000 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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# HMI Series

Industrial Panel PC,  
Web Panel & Monitors

CLIENT = PANEL PC VERSIONS  
VIEW = MONITOR VERSIONS



FlatClient/FlatView



KPanel S

MediClient/MediView

FlatClient/FlatView HYG



FlatClient/FlatView STS

Open Frame Monitor

FlatClient MAR



WP Web Panel



CP Control Panel

<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 13.3" (WF): 1920x1080 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-KBL:</b> Intel® Core™ i5-7300U, Intel® Celeron® 3965U <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 (5C, 1.1/4.3 GHz, up to 28W) 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-KBL:</b> 2x GbE, 1x HDMI, 1x Display Port, 4x USB 3.0 <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 RFID, WiFi 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, Ulus
<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*

\* on request

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

QIWI-Toolkit: For web panel operation

15.6" (WF): 1920x1080 18.5" (WF)*: 1920x1080 21.5" (WF)*: 1920x1080 23.8" (WF)*: 1920x1080	18.5" (WF)*: 1920x1080 21.5" (WF): 1920x1080 23.8" (WF): 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 (5C, 1.1/4.3 GHz, up to 28W) Intel® Core™ i3-1315UE / i5-1345UE / i7-1365UE	Intel® Celeron® 4305UE (2 Cores, 2M Cache, 2.00 GHz) Intel® Core™ i5-8365UE (4 cores, 6M Cache, up to 4.10 GHz)  <b>PRO Line:</b> Intel® Core™ i5-7300U, Intel® Core™ i5-8365UE
Support arm, VESA	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	4x USB 3.2 Gen 2 2x 2.5 GbE, 2x DisplayPort, 2x USB 3.2 (Type A), 1x USB 3.2 (DP, Type C), 1x USB 2.0  <b>MediView:</b> DVI, DP, USB 2.0
RFID, WiFi	RFID, WiFi, BT 5.1
12 - 30 VDC	24 VDC (isolated 1MOOP, 1500 VAC, >1,3 mm isolation barrier, max. operating range 9-30 VDC)/ 24 VDC (non-isolated, max. operating range 18-30 VDC)
IP65 front	IP65 front, IP22 rear
Fanless	Fanless
CE, Ulus	CE, UL, EN 60601-1 4th edition
0 °C to +50 °C	0 °C to +40 °C
15 G 11 ms duration (half sine)	30 G 11 ms duration (half sine)
10-500 Hz: 1G/3 axis	10-500 Hz: 2G/3 axis
3000 m	4000 m
Win 10 IoT, Win 11 IoT, Linux, QIWI Toolkit (Web Panel), KontronOS*	Windows 10 IoT, Linux

\* on request

\* on request

\* sizes on request

7.0" (WF)*: 800x480 10.1" (WF)*: 1280x800 12.1" (RF)*: 1024x768 12.1" WXGA (WF)*:1280x800 13.3" (WF)*: 1920x1080 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	15.0" (RF): 1024x768 17.0" (RF): 1280x1024 19.0" (RF): 1280x1024
Projected capacitive touch (PCAP) Protection glass	Projected capacitive touch (PCAP) Resistive touch Protection glass
<b>ECO Line:</b> Intel® Celeron® Prozessor 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/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	Intel® Pentium® Quad Core™ N4200: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0 Intel® Core™ i5-7300U/ Intel® Celeron® 3965U: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0
Panel mount	Panel mount
<b>FlatView STS:</b> DVI, DP, USB 2.0	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, Ulus	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

10.1" (WF): 1280x800 12.1" (WF): 1280x800 15.6" (WF): 1920x1080 18.5" (WF): 1920x1080 21.5" (WF): 1920x1080	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)
Projected capacitive touch	Projected capacitive touch (PCAP)
Intel® Pentium® Quad Core™ N4200 Intel® Core™ i5-7300U Intel® Celeron® 3965U	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)
Panel mount	Panel mount
<b>FlatView STS:</b> DVI, DP, USB 2.0	Intel® Pentium® Quad Core™ N4200: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0 Intel® Core™ i5-7300U/ Intel® Celeron® 3965U: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0
RFID	-
24 VDC (-25 %/+30 %)	24 VDC +/- 20 % or POE (WP 6x only)
IP65 front, IP20 rear	IP65 aluminum front, IP20 rear
Fanless	Fanless
CE, UL, EN 60945, DNVGL, IACS E10	CE, UL*, cUL*
0 °C to +50 °C	0 °C to +55 °C (WP 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
Windows 10 IoT, Linux	Embedded Linux (Yocto Distribution) Standard HTML-5 Browser: QIWI Toolkit Optional Protocols: EtherCAT, Modbus TCP/RTU, Profinet, Ethernet IP, CANopen, OPC UA, MQTT

\* WP 6x and WP 4x partially

\* CP 6x