

HMI Series

Industrial Panel PC & 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



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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® Quad Core™) and PRO version (Intel® Core™ i5) available
- ▶ Industrial grade – robust, reliable, versatile and maintenance-free
- ▶ Flexible mounting options: Built-in version or stand-alone/VESA in a full metal housing



▶ 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 cleanliness
- ▶ 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 cleanliness
- ▶ 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



About Kontron

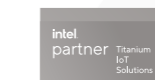
Kontron is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from accelerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

For more information, please visit: 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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CLIENT = PANEL PC VERSIONS
VIEW = MONITOR VERSIONS

FlatClient/FlatView

DISPLAY SIZE/RESOLUTION 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
FRONT OPTIONS TOUCH	Projected capacitive touch (PCAP) Resistive touch* Protection glass
PROCESSOR (Panel PC version)	ECO Line: Intel® Celeron® Prozessor J3455 Intel® Celeron® J6413 Intel Atom® x6212RE Intel Atom® x6425RE PRO Line: Intel® Core™ i5-7300U, Intel® Celeron® 3965U Intel® Core™ i5-8365UE, Intel® Celeron® 4305UE Intel® Core™ i5-1145G7E/i7-1185G7E, Intel® Celeron® 6305E
MOUNTING	Panel mount, VESA, stand-alone
STANDARD INTERFACES	ECO Line: Intel® Celeron® J3455: 2x GbE, 1x HDMI, 1x DisplayPort, 4x USB 3.0 Intel® Celeron® J6413, Intel Atom® x6212RE and x6425RE: 2x 2.5 GbE, 2x DisplayPort, 2x USB 3.2, 2x USB 2.0 PRO Line: 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® Core™ i5-1145G7E/i7-1185G7E/Intel® Celeron® 6305E: 1x 2.5GbE, 1x GbE, 4x USB 3.2, 2x DP FlatView: DVI, DP, USB 2.0
WIRELESS INTERFACES (OPT.)	RFID, WiFi
POWER	12-30 VDC or PoE
PROTECTION CLASS	IP65 front, IP20 rear
COOLING	Fanless
CERTIFICATIONS	CE, Ulus
OPERATING TEMPERATURE	0 °C to +50 °C
SHOCK	15 G 11 ms duration (half sine)
VIBRATION	10-500 Hz: 1G/3 axis
ALTITUDE	3000 m
SUPPORTED OS	Windows 10 IoT, Linux, QIWI Toolkit (Web Panel)

* on request

MediClient/MediView

18.5" (WF)*: 1920x1080 21.5" (WF): 1920x1080 23.8" (WF): 1920x1080	15.6" (WF)*: 1366x768/1920x1080 18.5" (WF)*: 1366x768 19.0" (RF)*: 1280x1024 21.5" (WF): 1920x1080 23.8" (WF)*: 1920x1080
Projected capacitive touch (PCAP) Protection glass*	Projected capacitive touch (PCAP) Protection glass
Intel® Celeron® 4305UE (2 Cores, 2M Cache, 2.00 GHz) Intel® Core™ i5-8365UE (4 cores, 6M Cache, up to 4.10 GHz)	ECO Line: Intel® Celeron® Prozessor J3455 PRO Line: Intel® Core™ i5-7300U, Intel® Core™ i5-8365UE
VESA	Support arm, VESA
4x USB 3.2 Gen 2 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0 3x RS232 (2 MOOP) 2x DP++	ECO Line: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0 PRO Line: 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
MediView: DVI, DP, USB 2.0	FlatView HYG: DVI, DP, USB 2.0
RFID, WiFi, BT 5.1	RFID, WiFi
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)	12-30 VDC
IP65 front, IP22 rear	IP69K (support arm), IP67 (VESA)
Fanless	Fanless
CE, UL, EN 60601-1 4th edition	CE, Ulus
0 °C to +40 °C	0 °C to +50 °C
30 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
10-500 Hz: 2G/3 axis	10-500 Hz: 1G/3 axis
4000 m	3000 m
Windows 10 IoT, Linux	Windows 10 IoT, Linux

* on request

* sizes on request

FlatClient/FlatView STS

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	10.1" (WF): 1280x800 12.1" (WF): 1280x800 15.6" (WF): 1920x1080 18.5" (WF): 1920x1080 21.5" (WF): 1920x1080
Projected capacitive touch (PCAP) Protection glass	Projected capacitive touch (PCAP) Resistive touch Protection glass	Projected capacitive touch
ECO Line: Intel® Celeron® Prozessor J3455 PRO Line: Intel® Core™ i5-7300U, Intel® Core™ i5-8365UE	- Panel PC optional on project base	Intel® Pentium® Quad Core™ N4200 Intel® Core™ i5-7300U Intel® Celeron® 3965U
Panel mount	Panel mount	Panel mount
ECO Line: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0 PRO Line: 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	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
FlatView STS: DVI, DP, USB 2.0		
RFID, WiFi	-	RFID
12-30 VDC	12 V DC/24 VDC (12 - 30 VDC)	24 VDC (-25 %/+30 %)
IP65 front, IP20 rear	IP65 front, IP20 rear	IP65 front, IP20 rear
Fanless	Fanless	Fanless
CE, Ulus	CE	CE, UL, EN 60945, DNVGL, IACS E10
0 °C to +50 °C	0 °C to +45 °C	0 °C to +50 °C
15 G 11 ms duration (half sine)	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	10-500 Hz: 1G/3 axis
3000 m	3000 m	3000 m
Windows 10 IoT, Linux	Windows 7, Windows 8.1 incl. Embedded, Windows 10 IoT, Linux	Windows 10 IoT, Linux

* sizes on request

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)	7.0" (WF): 1024x600 10.1" (WF): 1280x800 15.6" (WF): 1366x768 15.6" FHD (WF): 1920x1080 (CP 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
NXP Arm® i.MX6 (WP 3x): 1x Ethernet 10/100, 2x USB 2.0 NXP Arm® i.MX8M Mini (WP 4x): 1x GbE, 2x USB 2.0, optional: + 1x ETH 10/100, + RS232 NXP Arm® i.MX8M Plus (WP 6x): 1x GbE, 2x USB 2.0, optional: + 1x GbE, + RS485, + GPO	NXP Arm® i.MX6 (CP 3x): 2x Ethernet 10/100 independent , 2x USB 2.0, 1x CAN (isol.), 1x RS485 (isol.), 2x RS232, optional: + 1x CAN NXP Arm® i.MX8M Plus (CP 6x): 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	CE, UL
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) Optional HTML-5 Browser: QIWI Toolkit Optional Browser: MicroBrowser by iniNet	Embedded Linux (Yocto Distribution), QIWI Toolkit Optional Soft-PLC: CODESYS® V3 Optional Protocols: EtherCAT, Modbus TCP/RTU, Profinet, Ethernet IP, CANopen, OPC UA, MQTT