

# KONTRON FlatClient

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## A new Level of Flexibility

- ▶ Display sizes from 10.1" to 23.8" in regular or wide format
- ▶ Front options: PCAP touch, resistive touch or protection glass
- ▶ 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

POSSIBILITIES START HERE



**kontron**  
S&T Group

# FlatClient

## A new Level of Flexibility

With its FlatClient series, available as ECO and PRO version, Kontron offers high flexibility with respect to the design. The HMI comes in a full metal housing either for VESA mounting (stand-alone version) or for direct integration into machines or consoles (built-in version).

All FlatClient models feature an easy-clean, anti-glare and scratch-proof IP65 protected front glass. The front options offer a choice between either PCAP touch, resistive touch, or protection glass.

Both versions of the FlatClient are available from 10.1" to 23.8", which can be operated in both landscape and portrait format.

Intuitive multi-touch access to real-time actionable data makes the FlatClient the perfect fit for SCADA and Manufacturing Execution Systems (MES), process visualization and other control applications.

The thoroughly modular design can be easily customized for a broad variety of applications, thus making it suitable across all industries which require the visualization and processing of data.

### ▶ TECHNICAL INFORMATION

	ECO Line	PRO Line
<b>DISPLAY SIZE</b>	See table below	See table below
<b>LED BACKLIGHT</b>	Life time ≥ 50.000 h (30.000 h for 23.8")	Life time ≥ 50.000 h (30.000 h for 23.8")
<b>FRONT OPTIONS</b>	Projected capacitive touch (PCAP) / Resistive touch (except 23.8") / Protection glass	Projected capacitive touch (PCAP) / Resistive touch (except 23.8") / Protection glass
<b>MOUNTING</b>	Panel mount, VESA, stand-alone	Panel mount, VESA, stand-alone
<b>PROCESSOR</b>	Intel® Celeron® Quad Core™ J1900 Intel® Pentium® Quad Core™ N4200	Intel® Core™ i5-4300U Intel® Core™ i5-6300U Intel® Core™ i5-7300U
<b>RAM</b>	4 GByte DDR3 SO-DIMM	Intel® Core™ i5-4300U: 4 GByte DDR3 SO-DIMM Intel® Core™ i5-6300U / Intel® Core™ i5-7300U: 4 GByte DDR4 SO-DIMM
<b>STANDARD INTERFACES</b>	Intel® Celeron® Quad Core™ J1900: 2x GbE, 1x HDMI, 1x VGA, 1x USB 3.0, 2x USB 2.0 Intel® Pentium® Quad Core™ N4200: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0	Intel® Core™ i5-4300U: 3x GbE, 2x Display Port, 4x USB 3.0 Intel® Core™ i5-6300U / Intel® Core™ i5-7300U: 2x GbE, 1x HDMI, 1x Display Port, 4x USB 3.0
<b>WIRELESS INTERFACES</b>	RFID, WiFi	RFID, WiFi
<b>POWER SUPPLY</b>	12-30 VDC	12-30 VDC
<b>EMC</b>	EN55022 class B	EN55022 class B
<b>CERTIFICATIONS</b>	CE, cULus	CE, cULus
<b>ALTITUDE</b>	Up to 10.000 ft (3.000 m)	Up to 10.000 ft (3.000 m)
<b>SHOCK, ACCORDING TO EN 60068-2-27</b>	15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
<b>VIBRATION, ACCORDING TO EN 60068-2-6</b>	10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
<b>OPERATING TEMPERATURE</b>	0 °C to +50 °C*	0 °C to +50 °C*
<b>PROTECTION CLASS</b>	IP65 front, IP20 rear	IP65 front, IP20 rear
<b>HUMIDITY</b>	10 %-90 % @ 39 °C, non condensing	10 %-90 % @ 39 °C, non condensing
<b>MTBF</b>	> 50.000 h	> 50.000 h
<b>VERIFIED OS</b>	Windows7 incl. Embedded, Windows8.1 incl. Embedded, Windows 10 IoT, Linux	Intel® Core™ i5-7300U: Windows8.1 incl. Embedded, Windows 10 IoT, Linux all other CPUs: Windows7 incl. Embedded, Windows8.1 incl. Embedded, Windows 10 IoT, Linux
<b>RoHS COMPLIANT</b>	yes	yes
<b>COOLING</b>	Fanless passive cooling	Fanless passive cooling
<b>OPTIONS (FURTHER OPTIONS ON REQUEST)</b>	Other Intel® CPUs/Platforms on request 8 GByte RAM CF/SD Card Adapter SD Card Memory 4 GB, 16 GB, 32 GB, 64 GB mSATA SSD 32 GB, 64 GB, 128 GB, 256 GB, 512 GB 2x COM (RS232, RS422, RS485) Audio with amplifier (2x 3 W) CF Card Memory WiFi RFID	Other Intel® CPUs/Platforms on request 8 GByte RAM 16 GByte RAM (i5-6300U, i5-7300U) CF/SD Card Adapter SD Card Memory 4 GB, 16 GB, 32 GB, 64 GB mSATA SSD 32 GB, 64 GB, 128 GB, 256 GB, 512 GB Intel® Core™ i5-6300U / Intel® Core™ i5-7300U: m.2 SSD 32 GB, 64 GB, 128 GB, 256 GB, 512 GB, 1024 GB (1 TB) 2x COM (RS232, RS422, RS485) Audio with amplifier (2x 3 W) CF Card Memory WiFi RFID

\*Display size 23.8": cULus listed 0 °C to +45 °C

## ▶ DISPLAY INFORMATION

DISPLAY SIZE	RESOLUTION	FORMAT	BRIGHTNESS	DIMENSIONS	VIEWING ANGLE	COLORS	WEIGHT
10.1"	1280x800	16:10	500cd	276 x 195 x 65	H170 ° / V170 °	16.2 million	~ 3,7 kg
10.4"	800x600	4:3	400cd	297 x 244 x 65	H160 ° / V140 °	16.7 million	~ 3,9 kg
12.1"	800x600	4:3	450cd	338 x 277 x 65	H178 ° / V178 °	16.7 million	~ 4,7 kg
12.1"	1024x768, XGA	4:3	600cd	338 x 277 x 65	H160 ° / V140 °	16.2 million	~ 4,7 kg
12.1"	1280x800, WXGA	16:10	500cd	321 x 234 x 65	H178 ° / V178 °	16.7 million	~ 4,7 kg
13.3"	1920x1080, Full HD	16:9	400cd	354 x 226 x 65	H178 ° / V178 °	16.7 million	~ 5,3 kg
15.0"	1024x768	4:3	400cd	396 x 312 x 69	H160 ° / V140 °	16.7 million	~ 6,4 kg
15.6"	1366x768, HD	16:9	300cd	432 x 281 x 74	H160 ° / V160 °	16.7 million	~ 6,7 kg
15.6"	1920x1080, Full HD	16:9	400cd	432 x 281 x 74	H140 ° / V120 °	16.2 million	~ 6,7 kg
17.0"	1280x1024	5:4	350cd	427 x 360 x 74	H160 ° / V140 °	16.7 million	~ 7,8 kg
18.5"	1366x768, HD	16:9	300cd	500 x 321 x 74	H178 ° / V170 °	16.7 million	~ 8,6 kg
18.5"	1920x1080, Full HD	16:9	350cd	500 x 321 x 74	H178 ° / V178 °	16.7 million	~ 8,6 kg
19.0"	1280x1024	5:4	350cd	473 x 396 x 68	H170 ° / V160 °	16.7 million	~ 9,4 kg
21.5"	1920x1080, Full HD	16:9	300cd	575 x 367 x 74	H178 ° / V178 °	16.7 million	~ 10,7 kg
23.8"	1920x1080, Full HD	16:9	250cd	591 x 361 x 69	H178 ° / V178 °	16.7 million	~ 11,8 kg

## ▶ Global Headquarters

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