

Kontron FlatClient



A new Level of Flexibility

- Display sizes from 7.0" 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™/Celeron®)
- Industrial grade: robust, reliable, versatile and maintenance-free
- Flexible mounting options: built-in version or stand-alone/VESA in a full metal housing

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 7.0" 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
DISPLAY SIZE	See table below	See table below
LED BACKLIGHT	Life time ≥ 50.000 h (30.000 h for 23.8")	Life time ≥ 50.000 h (30.000 h for 23.8")
FRONT OPTIONS	Projected capacitive touch (PCAP)/ Resistive touch (except 7.0" & 23.8")/Protection glass	Projected capacitive touch (PCAP)/ Resistive touch (except 7.0" & 23.8")/Protection glass
MOUNTING	Panel mount, VESA, stand-alone	Panel mount, VESA, stand-alone
PROCESSOR	FlatClient ECO-APL: Intel® Celeron® J3455 FlatClient ECO-EKL: Intel® Celeron® J6413 Intel Atom® x6212RE, Intel Atom® x6425RE	FlatClient PRO-KBL: Intel® Core™ i5-7300U, Intel® Celeron® 3965U FlatClient PRO-WKL: Intel® Core™ i5-8365UE, Intel® Celeron® 4305UE FlatClient PRO-TGL: Intel® Core™ i5-1145G7E/i7-1185G7E, Intel® Celeron® 6305E
RAM	4/8/16 GByte	4/18/16/32 GByte
STANDARD INTERFACES	FlatClient ECO-APL: 2x GbE, 1x HDMI, 1x DisplayPort, 4x USB 3.0 FlatClient ECO-EKL: 2x 2.5 GbE, 2x DisplayPort, 2x USB 3.2, 2x USB 2.0	FlatClient PRO-KBL: 2x GbE, 1x HDMI, 1x Display Port, 4x USB 3.0 FlatClient PRO-WKL: 2x GbE, 2x DP++, 4x USB 3.1 FlatClient PRO-TGL: 1x 2.5GbE, 1x GbE, 2x DP, 4x USB 3.2
WIRELESS INTERFACES	RFID, WiFi, BT	RFID, WiFi, BT
POWER SUPPLY	12-30 VDC	12-30 VDC
EMC	EN55032 class B	EN55032 class B
CERTIFICATIONS	CE, cULus	CE, cULus
ALTITUDE	Up to 10.000 ft (3.000 m)	Up to 10.000 ft (3.000 m)
SHOCK, ACCORDING TO EN 60068-2-27	15 G 11 ms duration (half sine)	15 G 11 ms duration (half sine)
VIBRATION, ACCORDING TO EN 60068-2-6	10-500 Hz: 1G/3 axis	10-500 Hz: 1G/3 axis
OPERATING TEMPERATURE	0 °C to +50 °C*	0 °C to +50 °C*
PROTECTION CLASS	IP65 front, IP20 rear	IP65 front, IP20 rear
HUMIDITY	10 %-90 % @ 39 °C, non condensing	10 %-90 % @ 39 °C, non condensing
MTBF	> 50.000 h	> 50.000 h
OS	Windows 10 IoT, Linux	Windows 10 IoT, Linux

	ECO Line	PRO Line
RoHS COMPLIANT	yes	yes
COOLING	Fanless passive cooling	Fanless passive cooling
OPTIONS (FURTHER OPTIONS ON REQUEST)	Other Intel® CPUs/Platforms on request 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 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™ i5-7300U/Intel® Core™ i5-8365UE: 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
7.0"	800x480	5:3	400cd	194 x 144 x 55	H160 ° / V160 °	16.7 million	~ 1,4 kg
10.1"	1280x800	16:10	500cd	276 x 195 x 65	H170 ° / V170 °	16.2 million	~ 3,7 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	315 x 228 x 65	H178 ° / V178 °	16.7 million	~ 4,7 kg
13.3"	1920x1080, Full HD	16:9	400cd	360 x 231 x 66	H178 ° / V178 °	16.7 million	~ 5,3 kg
15.0"	1024x768	4:3	500cd	396 x 312 x 69	H160 ° / V140 °	16.7 million	~ 6,4 kg
15.6"	1920x1080, Full HD	16:9	450cd	399 x 260 x 74	H178 ° / V178 °	16.7 million	~ 6,5 kg
18.5"	1920x1080, Full HD	16:9	350cd	465 x 299 x 74	H178 ° / V178 °	16.7 million	~ 8,4 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	533 x 339 x 74	H178 ° / V178 °	16.7 million	~ 10,5 kg
23.8"	1920x1080, Full HD	16:9	250cd	591 x 361 x 69	H178 ° / V178 °	16.7 million	~ 11,8 kg

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