

# KONTRON FlatClient CTR

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## CLEAR VISUALIZATION FOR CONTROL ROOMS

- ▶ Display sizes 18.5" and 21.5" with ultra narrow frame
- ▶ ECO version (Intel Atom® Quad Core™) and PRO version (Intel® Core™ i5) available
- ▶ Industrial grade – robust, reliable and light weight metal housing
- ▶ Remote Multi-Display Adjustment (LPC4)

POSSIBILITIES START HERE



# FlatClient CTR

## CLEAR VISUALIZATION FOR CONTROL ROOMS

The Kontron FlatClient CTR series for control room applications offers brilliant screens with an anti-glare surface for best readability. Everything is packed in a lightweight metal housing with an ultra thin frame so that installation on a monitor stand is very easy and convenient.

Additionally the FlatClient CTR Control room is protected against spray water and dust. This ensures reliable long term operation even in polluted environments.

The FlatClient CTR comes along with a remote display adjustment interface:

The so called LPC4 controller enables remote display adjustments through a standard Ethernet connection. Adjustments like brightness or contrast can be done from a remote PC and of course for single and for multiple FlatClient CTR at the same time. Setups can be created and stored which is very convenient in applications with alternating users in one workplace.

### 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 / Protection glass	Projected capacitive touch PCAP / Protection glass
MOUNTING	VESA with narrow bezel	VESA with narrow bezel
PROCESSOR	Intel® Celeron® Quad Core™ J1900 Intel® Pentium® Quad Core™ N4200	Intel® Core™ i5-4300U Intel® Core™ i5-6300U Intel® Core™ i5-7300U
RAM	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
STANDARD INTERFACES	Intel® Celeron® Quad Core™ J1900: 2x GbE, 1x HDMI, 1x VGA, 1x USB 3.0, 2x USB 2.0, 1x ETH (LPC4) Intel® Pentium® Quad Core™ N4200: 2x GbE, 1x HDMI, 1x DP, 4x USB 3.0, 1x ETH (LPC4)	Intel® Core™ i5-4300U: 3x GbE, 2x Display Port, 4x USB 3.0, 1x ETH (LPC4) Intel® Core™ i5-6300U / Intel® Core™ i5-7300U: 2x GbE, 1x HDMI, 1x Display Port, 4x USB 3.0, 1x ETH (LPC4)
WIRELESS INTERFACES	RFID, WIFI	RFID, WIFI
POWER SUPPLY	16-30 VDC	16-30 VDC
EMC	EN55022 class B	EN55022 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	IP20 (up to IP54 on request)	IP20 (up to IP54 on request)
HUMIDITY	10 %-90 % @ 39 °C, non condensing	10 %-90 % @ 39 °C, non condensing
MTBF	> 50.000 h	> 50.000 h
SUPPORTED OS	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
RoHS COMPLIANT	yes	yes
COOLING	Fanless passive cooling	Fanless passive cooling
OPTIONS (FURTHER OPTIONS ON REQUEST)	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 INFORMATION

DISPLAY SIZE	RESOLUTION	FORMAT	BRIGHTNESS	DIMENSIONS	VIEWING ANGLE	COLORS	WEIGHT
18.5"	1920x1080, Full HD	16:9	300cd	500 x 321 x 74	H178 ° / V170 °	16.7 million	~ 5,5 kg
21.5"	1920x1080, Full HD	16:9	300cd	575 x 367 x 74	H178 ° / V178 °	16.7 million	~ 7,4 kg

## ▶ GLOBAL HEADQUARTERS

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