

»HMI & Displays «

The scalable product line of the HMI systems offers a wide range of processor capacities (up to Intel® Core Duo™) and display dimensions from 7.0" up to 19.0". The 100% industry-capable Panel PCs and displays meet the toughest industrial requirements concerning shock, vibration and temperature resistance. However specific your requirements, we supply you with semi- and full-customized Panel PCs and displays for your control and visualization applications.

- » High performance with embedded multi-core processor technology
- » Fanless cooling at maximum processor performance
- » Scalable display sizes
- » Closed cabinets for use in rugged environments

CONTENTS

/ Panel Express	84
Micro Client	86
MediClient	88
Nano Client	89
KFM Monitors	90
HMI OEM Systems	91



» HMI – Human Machine Interface «



V Panel Express

Supreme computing performance with scaleable multi-core processors

- » High performance with embedded multi-core processor technology up to Intel® Core™ Duo processors
- » Ideal for running real time control and visualization simultaneously on one system or high-end rugged computing applications » Fanless cooling at maximum processor performance
- » Scaleable display size: 12", 15", 17" and 19"

V Panel Express

The V Panel Express line based on ETXexpress / COM Express technology offers supreme computing performance at low power consumption. The integrated innovative cooling concept realizes a passive and fanless cooling for highest processor performance up to Intel® Core™ Duo processor technology. This allows critical

V Pane

Expres

and highly complex realtime applications to run on one computer with almost twice the performance. The V Panel Express is ideal for running real time control and visualization simultaneously whereas previously these applications had to be run on two or more dedicated systems.

V Panel Express

Display

Brightness

Touch Screen

Front Rozal

H x W x D

Processor

Free Slots

Cooling

Altitude

EMC

Internal Drives

I/0s



1280x1024

250cd/m²

Resistive analog

up to 2 GByte

24 VDC

Fanless

CE. ECC. cULus

12 and 13)

2G / 3 axis

> 40000 h *

Embedded

5x USB (1x front; 4x rear side),

1x LAN 10/100, 1x LAN 100/1000, 2x RS232, 1x DVI-I

optional 2x Compact Flash,

IIS: FCC47 CER PART 15:

Class A level CE: EN61000-6-2; EN55022/A (CISPR22)

IP 65 front (NEMA 250 type

Operating: 10000 ft (3,048m), Storage: 15000 ft (4,622m)

Operating: 15G, 11ms duration / storage: 30G, 11ms duration

Operating: 10-500 Hz: 1G / 3 axis / Storage: 10-500 Hz:

Operating: 0° to +50°C /

Storage: -20° to +60°C / 5 to 95% non condensing

Windows XP Windows XP

Embedded, Linux, Linux

20 to 85% non condensi

ı		V Panel
S	121	Express

12.1"	15.0
300x600	1024
350cd/m²	250c
Resistive analog	Resis
Alu, Stainless steel optional	Alu,
312 x 380 x 163 mm	354 >

.,
up to 2 GByte
5x USB (1x front; 4x rear side), 1x LAN 10/100, 1x LAN
IX LAN IU/IUU, IX LAN

optional 2x Compact Flash, 2x SATA HDD

Power Supply 24 VDC Fanless

Approvals Protection Class

Shock DIN EN 60068-2-27

Vibration DIN EN 60068-2-6

Temperature/Humidity

MTBF Verified OS

RoHS compliant

15.0"
1024x768
250cd/m²
Resistive analog
Alu, Stainless steel optional

up to Intel® Core™2 Duo

100/1000, 2x RS232, 1x DVI-I

US: FCC47 CER PART 15: Class A level CE: EN61000-6-2; EN55022/A (CISPR22)

CE. ECC. cUlus IP 65 front (NEMA 250 type 12 and 13)

Operating: 10000 ft (3,048m), Storage: 15000 ft (4,622m) / storage: 30G, 11ms duration (half-sinus)

Operating: 10-500 Hz: 1G / 3 axis / Storage: 10-500 Hz: 2G / 3 axis

Operating: 0° to +50°C / 20 to 85% non condensing Storage: -20° to +60°C / 5 to 95% non condensing > 40000 h *

Windows XP Windows XP Embedded, Linux, Linux Embedded

150

450 x 163 mm up to Intel® Core™2 Duo

up to 2 GByte 5x USB (1x front; 4x rear side), 1x LAN 10/100, 1x LAN 100/1000, 2x RS232, 1x DVI-I

optional 2x Compact Flash, 2x SATA HDD

> 24 VDC US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2; EN55022/A (CISPR22)

CE. ECC. cUltus IP 65 front (NEMA 250 type 12 and 13)

Operating: 10000 ft (3,048m) Storage: 15000 ft (4,622m)

storage: 30G, 11ms duration (half-sinus) Operating: 10-500 Hz: 1G / 3 axis / Storage: 10-500 Hz:

2G / 3 axis Operating: 0° to +50°C / 20 to 85% non condensing Storage: -20° to +60°C / 5 to 95% non condensing

> 40000 h * Windows XP Windows XP

Embedded, Linux, Linux Embedded

V Panel Express 170 Express 190

> 10 0" 1280x1024 250cd/m² Resistive analog

Alu, Stainless steel optional Alu, Stainless steel optional 399 x 461 x 168 mm 426 x 516 x 165 mm

up to Intel® Core™2 Duo up to Intel® Core™2 Duo up to 2 GByte

5x USB (1x front; 4x rear side), 1x LAN 10/100, 1x LAN 100/1000, 2x RS232, 1x DVI-I

optional 2x Compact Flash,

24 VDC

Fanless US: FCC47 CFR PART 15: Class A level CE: EN61000-6-2; EN55022/A (CISPR22)

CE. FCC. cUltus IP 65 front (NEMA 250 type 12 and 13)

Operating: 10000 ft (3,048m), Storage: 15000 ft (4,622m)

Operating: 15G, 11ms duration / storage: 30G, 11ms duration (half-sinus)

Operating: 10-500 Hz: 1G / 3 axis / Storage: 10-500 Hz: 2G / 3 axis Operating: 0° to +50°C / 20 to 85% non condensing

Storage: -20° to +60°C / 5 to 95% non condensing

Windows XP Windows XP Embedded, Linux, Linux Embedded

*excluding the Backlight Tube

Micro Clients II

By focusing on the intended use as an industrial thin client including touch functionality for operating and monitoring, the Kontron Micro Client II provides all the latest features required for thin client oriented HMI applications in a cost-optimized design that includes a modular IP65 protected front panel with touch screen. The Kontron Micro Clients II can be implemented with either SATA, CompactFlash or Ethernet boot functionality.

This makes them the perfect fit for all common server-orientated HMI client technologies. Depending on the application needs, the fanless and scalable Kontron Micro Clients II are equipped with embedded processors ranging from the AMD LX 800 processor with 500MHz up to the 1.0 GHz Intel® Celeron® processor. Shock and vibration resistance, thermal stability and compliance with the strictest EMC standards are standard features for all Micro Clients.

Micro Clients II





	COMM		N. W.	
	Micro Client II 70	Micro Client II 104	Micro Client II 121	Micro Client II 150
Display	7.0" TFT	10.4" TFT	12.1" TFT	15.0" TFT
Resolution	800x480	800x600	800x600	1024x768
Brightness	330cd/m²	230cd/m²	400cd/m²	350cd/m²
Touch Screen	Resisitive analog	Resisitive analog	Resisitive analog	Resisitive analog
Dimensions (Panelmount) H x W x D	168 x 235 x 49 mm	277 x 348 x 50 mm	312 x 380 x 55 mm	354 x 450 x 56 mm
Colour (Front)	black RAL 911	black (Pantone 433c)	black (Pantone 433c)	black (Pantone 433c)
Mounting	Panelmount + VESA opt.	Panelmount + VESA opt.	Panelmount + VESA opt.	Panelmount + VESA opt.
Processor	AMD LX800 500MHz up to Celeron M® 1GHz	AMD LX800 500MHz up to Celeron M® 1GHz	AMD LX800 500MHz up to Celeron M® 1GHz	AMD LX800 500MHz up to Celeron M® 1GHz
Main Memory	up to 1024 MByte	up to 1024 MByte	up to 1024 MByte	up to 1024 MByte
I/0s	2x USB, 2x LAN10/100, 1x RS232, 1x RS232/RS422/ RS485 opt.	2x USB rear, 1x USB front, 2x LAN10/100, 1x RS232, 1x RS232/RS422/RS485 opt.	2x USB rear, 1x USB front, 2x LAN10/100, 1x RS232, 1x RS232/RS422/RS485 opt.	2x USB rear, 1x USB front, 2x LAN10/100, 1x RS232, 1x RS232/RS422/RS485 opt.
Field Buses	CAN bus optional	CAN bus optional	CAN bus optional	CAN bus optional
Internal Drives	Compact Flash	Compact Flash and/or 2.5" HDD	Compact Flash and/or 2.5" HDD	Compact Flash and/or 2.5" HDD
Power Supply	11.4-28.8 VDC	11.4-28.8 VDC	11.4-28.8 VDC	11.4-28.8 VDC
Cooling	Fanless	Fanless	Fanless	Fanless
EMC	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)
Approvals	CE, FCC, cULus	CE, FCC, cULus	CE, FCC, cULus	CE, FCC, cULus
Protection Class	IP 65 front	IP 65 front	IP 65 front	IP 65 front
Altitude	Operating: 10.000 ft (3.048 m); storage: 15.000 ft (4,622 m)	Operating: 10.000 ft (3.048 m); storage: 15.000 ft (4,622 m)	Operating: 10.000 ft (3.048 m); storage: 15.000 ft (4,622 m)	Operating: 10.000 ft (3.048 m); storage: 15.000 ft (4,622 m)
Shock DIN EN 60068-2-27	Operating: 15G, 11ms duration Storage: 50G, 11ms duration (half-sinus)	Operating: 15G, 11ms duration Storage: 50G, 11ms duration (half-sinus)	Operating: 15G, 11ms duration Storage: 50G, 11ms duration (half-sinus)	Operating: 15G, 11ms duration Storage: 50G, 11ms duration (half-sinus)
Vibration DIN EN 60068-2-6	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis
Temperature/Humidity	Operating: 0° to +50°C / 20 to 90% non condensing Storage: -20° to +60°C / 5 to 90% non condensing	Operating: 0 °C to +50 °C / 20 to 90% non condensing Storage: -20 °C to +60 °C /	Operating: 0 °C to +50 °C / 20 to 90% non condensing Storage: -20 °C to +60 °C /	Operating: 0 °C to +50 °C / 20 to 90% non condensing Storage: -20 °C to +60 °C /
		5 to 90% non condensing	5 to 90% non condensing	5 to 90% non condensing
MTBF	> 40.000 h*	> 40.000 h*	> 40.000 h*	> 40.000 h*
Verified OS	Windows XP Embedded, CE, Linux Embedded	Windows XP Embedded, CE, Linux Embedded	Windows XP Embedded, CE, Linux Embedded	Windows XP Embedded, CE, Linux Embedded

*excluding the Backlight Tube

MicroClient IIA

The fanless and scalable Kontron Micro Client IIA is equipped with Intel® Atom™ processor 1.6 GHz with low TDP(Thermal Design Power) which enables a passive and fanless cooling. By focusing on the intended use as an industrial thin client including touch functionality for operating and monitoring, the new Kontron Micro Client IIA provides all the latest features required for thin client oriented HMI applications in a cost-optimized design

that includes a modular IP65 protected front panel with touch screen. The Kontron Micro Client IIA can be implemented with either SATA, CompactFlash or Ethernet boot functionality. This makes it the perfect fit for all common serverorientated HMI client technologies. Shock and vibration resistance, thermal stability and compliance with the strictest EMC standards are standard features for all Micro Clients

Micro Clients IIA



	The water			
	Micro Client IIA 70	Micro Client IIA 104	Micro Client IIA 121	Micro Client IIA 150
Display	7.0" TFT	10.4" TFT	12.1" TFT	15.0" TFT
Resolution	800x480	800x600	800x600	1024x768
Brightness	330cd/m²	230cd/m²	400cd/m²	350cd/m²
Touch Screen	Resisitive analog	Resisitive analog	Resisitive analog	Resisitive analog
Dimensions (Panelmount) H x W x D	168 x 235 x 49 mm	277 x 348 x 50 mm	312x380x55 mm	354x450x56 mm
Colour (Front)	black RAL 911	black (Pantone 433c)	black (Pantone 433c)	black (Pantone 433c)
Mounting	Panelmount + VESA opt.			
Processor	Intel® Atom™ 1.6 GHz			
Main Memory	up to 2 GB			
I/0s	2x USB, 2x LAN10/100/1000, 1x R5232, 1x RS232/RS422/ RS485 opt.	2x USB rear, 1x USB front, 2x LAN10/100/1000, 1x RS232, 1x RS232/RS422/ RS485 opt.	2x USB rear, 1x USB front, 2x LAN10/100/1000, 1x RS232, 1x RS232/RS422/ RS485 opt.	2x USB rear, 1x USB front, 2x LAN10/100/1000, 1x RS232, 1x RS232/RS422/ RS485 opt.
Field Buses	CAN bus and additional field buses optional			
Internal Drives	Compact Flash	Compact Flash and/or 2.5" HDD	Compact Flash and/or 2.5" HDD	Compact Flash and/or 2.5" HDD
Power Supply	12 - 24 VDC			
Cooling	Fanless	Fanless	Fanless	Fanless
EMC	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)
Approvals	CE, FCC, cULus	CE, FCC, cULus	CE, FCC, cULus	CE, FCC, cULus
Protection Class	IP 65 front	IP 65 front	IP 65 front	IP 65 front
Altitude	Operating: 10.000 ft (3,048 m); storage: 15.000 ft (4,622 m)	Operating: 10.000 ft (3,048 m); storage: 15.000 ft (4,622 m)	Operating: 10.000 ft (3,048 m); storage: 15.000 ft (4,622 m)	Operating: 10.000 ft (3,048 m); storage: 15.000 ft (4,622 m)
Shock DIN EN 60068-2-27	Operating: 15G, 11ms duration Storage: 50G, 11ms duration (half-sinus)			
Vibration DIN EN 60068-2-6	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis	Operating: 10-500 Hz: 1G / 3 axis Storage: 10-500 Hz: 2G / 3 axis
Temperature/Humidity	Operating: 0° to +50°C / 20 to 90% non condensing Storage: -20° to +60°C / 5 to 90% non condensing	Operating: 0° to +50°C / 20 to 90% non condensing Storage: -20° to +60°C / 5 to 90% non condensing	Operating: 0° to +50°C / 20 to 90% non condensing Storage: -20° to +60°C / 5 to 90% non condensing	Operating: 0° to +50°C / 20 to 90% non condensing Storage: -20° to +60°C / 5 to 90% non condensing
MTBF	> 40.000 h*	> 40.000 h*	> 40.000 h*	> 40.000 h*
Verified OS	Windows XP Embedded, CE, Linux Embedded			

^{*}excluding the Backlight Tube

MediClient

Panel PC for Medical Equipment OEMs

Flexible HMI for Every Medical Case

- » EN 60601-1 compatible
- » Robust, light and easy-to-clean plastic housing
- » Fanless cooling
- » Scalable processor performance up to Celeron M® 1 GHz

Kontron's Mediclient offers medical OEMs a highly reliable platform with flexible mounting options and the longevity required by the medical industry. The touch screen of the medical Panel PC offers sharp graphics on a high contrast TFT display. The front panel of the medical Panel PC offers IP65 protection. The extremely tough and light plastic housing (ABS UL94VO) is scratch proof,

corrosion resistant and chemical resistant for long life and easy cleaning. VESA arm mounting makes the Kontron Mediclient easy-to-integrate for a wide spectrum of cost-sensitive OEM medical applications that require sharp graphics and intuitive user interfaces in a space-saving, robust design. The Kontron Mediclient offers flexible and scalable processor performance up to the Celeron® M with 1 GHz. The dual Ethernet (10/100), dual USB2.0 and serial (RS232 opt. RS422/RS485) interfaces making it the ideal Panel PC for a wide range of medical applications. With its low power consumption and low heat dissipation, the new Mediclient is also perfectly suited for mobile, battery driven all-in-one Point-of-Care applications, such as mobile nursing stations and bedside terminals in hospitals or health centers.

Windows XP Embedded, CE, Linux Embedded

MediClient



MediClient 104

Windows XP Embedded, CE, Linux Embedded

	MediClient 104	MediClient 150	
Display	10.4" TFT	15.0" TFT	
Resolution	800x600	1024x768	
Brightness	230cd/m²	350cd/m ²	
Touch Screen	Resistive analog	Resistive analog	
Dimensions (H x W x D)	226 x 296 x 58.5 mm	286 x 363 x 62 mm	
Weight	ca. 2.2 kg	ca. 3.3 kg	
Colour (Front)	light grey (RAL 7035)	light grey (RAL 7035)	
Mounting	VESA 75/100 mounting	VESA75/100 mounting	
Processor	up to Celeron M® 1 GHz	up to Celeron M® 1 GHz	
RAM	up to 1024 MByte	up to 1024 MByte	
I/O Standard	2x USB, 2x LAN 10/100, 1x RS232 (RS422/RS485 optional)	2x USB, 2x LAN 10/100, 1x RS232 (RS422/RS485 optional)	
Field Buses	CAN bus optional	CAN bus optional	
Internal Drives	Compact Flash + HDD opt.	Compact Flash + HDD opt.	
Power Supply	11.4 - 28.8 VDC	11.4 - 28.8 VDC	
Cooling	Fanless	Fanless	
EMC	US:FCC47 CFR PART15; Class A level CE:EN61000-6-2; EN55022/A (CISPR22	US:FCC47 CFR PART15; Class A level CE:EN61000-6-2; EN55022/A (CISPR22)	
Certifications	CE, FCC, cULus, EN 60601 compatible	CE, FCC, cULus, EN 60601 compatible	
Protection Class	IP65 front	IP65 front	
Altitude	Operating: 10000 ft (3.048m), Storage: 15000 ft (4.622m)	Operating: 10000 ft (3.048m), Storage: 15000 ft (4.622m)	
Shock DIN EN 60068-2-27	Operating: 15 g 11 ms duration, Storage: 30G, 11ms duration (half-sinus)	Operating: 15 g 11 ms duration, Storage: 30G, 11ms duration (half-sinus)	
Vibration DIN EN 60068-2-6	Operating: 10-500 Hz: 1G/3 axis, Storage: 10-500 Hz: 2G/3 axis	Operating: 10-500 Hz: 1G/3 axis, Storage: 10-500 Hz: 2G/3 axis	
Temperature/Humidity	Operating: 0 °C to +40 °C / 20 to 85% non condensing Storage: -20 °C to +60 °C / 5 to 95% non condensing	Operating: 0 °C to +40 °C / 20 to 85% non condensing Storage: -20 °C to +60 °C / 5 to 95% non condensing	
MTBF	> 40000 h*	> 40000 h*	

*excluding the Backlight Tube

Verified OS

Nano Client

Rugged Fanless HMI

The Nano Client offers stainless steel housing (IP66 around) and fanless cooling.

- » Closed cabinet (stainless steel, IP66 around)
- » Fanless cooling
- » Ideally designed for use as a web client / thin client in rugged environments
- » Low power management with Intel® Atom™ processor up to 1.6 GHz
- » Compact space saving systems with max. 63 mm depth

Kontron's Nano Clients are robust and cost conscious human machine interfaces. With stainless steel housing and all around protection in IP66, the Nano Client is perfectly suited as a client device in rugged environments. Intel's® Atom™ processor with low TDP (Thermal Design Power) enables a passive and fanless cooling in combination with a closed cabinet.

The Nano Clients are scaleable in processor performance to suit individual requirements and applications. Whether as a thin client, a web client, a user terminal or as a controller, a wide variety of requirements can be realized quickly and inexpensively using these rugged, low power HMI systems.

Nano Client



Nano Client 104 Nano Client 150

	Nano Ctient 104	Nano Client 150
Display	10.4" TFT	15.0" TFT
Resolution	800x600	1024x768
Brightness	230cd/m²	350cd/m ²
Touch Screen	Resistive analog	Resistive analog
Dimensions (H x W x D)	230 x 292 x 56 mm	299 x 384 x 63 mm
Housing	Stainless steel	Stainless steel
Weight	ca. 3.5 kg	ca. 6 kg
Mounting	VESA 75	VESA 100
Processor	Intel® Atom™ processor up to 1.6 GHz	Intel® Atom™ processor up to 1.6 GHz
RAM	up to 1 GByte	up to 1 GByte
I/O Standard	USB, LAN 10/100/1000	USB, LAN 10/100/1000
Internal Drives	Compact Flash	Compact Flash
Power Supply	24 VDC	24 VDC
Cooling	Fanless	Fanless
EMC	US:FCC47 CFR PART15; Class A level CE:EN61000-6-2; EN55022 / A (CISPR22)	US:FCC47 CFR PART15; Class A level CE:EN61000-6-2; EN55022 / A (CISPR22)
Certifications	CE, FCC, designed to meet cULus	CE, FCC, designed to meet cULus
Protection Class	IP66 all around	IP66 all around
Altitude	Operating: 10000 ft (3.048m); Storage: 15000 ft (4.622m)	Operating: 10000 ft (3.048m); Storage: 15000 ft (4.622m)
Shock DIN EN 60068-2-27	Operating: 15 g 11 ms duration; Storage: 50G, 11ms duration (half-sinus)	Operating: 15 g 11 ms duration; Storage: 50G, 11ms duration (half-sinus)
Vibration DIN EN 60068-2-6	Operating: 10-500 Hz: 1G/3 axis; Storage: 10-500 Hz: 2G/3 axis	Operating: 10-500 Hz: 16/3 axis; Storage: 10-500 Hz: 2G/3 axis
Temperature/Humidity	Operating: 0 °C to +45 °C / 20 to 90% non condensing Storage: -20 °C to +65 °C / 5 to 90% non condensing	Operating: 0 °C to +45 °C / 20 to 90% non condensing Storage: -20 °C to +65 °C / 5 to 90% non condensing
MTBF	> 40000 h*	> 40000 h*
Verified OS	Windows XP Embedded, CE, Linux Embedded	Windows XP Embedded, CE, Linux Embedded

^{*}excluding the Backlight Tube

KFM

The KFM series of 15", 19" and 21" LCD monitors is fully certified and specially designed for industrial applications. The KFM's ample display area can present vivid and precise images for your HMI. The front accessible on-screen-display function allows users to adjust images with ease. The optional touch-screen gives you access to your system.

All KFM monitors offer as standard:

VGA and DVI and S-Video and Composite Video inputs.

Four Inputs:

- » VGA
- » DVI
- » S-Video
- » Composite Video

KFM







KFM15 e

Display	15.1" XGA
Viewing angle L R U D	75, 75, 50, 75
Brightness	350 cd/m²
Touch Screen	resisitive analog optional
Dimensions H x W x D	Panelmount: 334 x 450 x 63 mm Rack Mount: 311 x 483 x 63 mm
Color	black (RAL 7021)
Mounting	Panel Mount / Rack Mount
Construction	Anti-corrosion heavy duty steel EN 10215-DX 51D+AZ 150-A-C
Interface	VGA SUB-D, DVI, S-Video, Composite Video
Power Supply	24 V DC integrated, AC integrated
Cooling	Fanless
OSD	yes
Control Panel Indicators	Power LED
Control Panal Switch	Power On /Off

10215-DX 51D+AZ 150-A-C
VGA SUB-D, DVI, S-Video, Composite Video
24 V DC integrated, AC integrated
Fanless
yes
Power LED
Power On/Off
10.000 ft
resisitive analog optional
15 g 11 ms half sine
10 - 58 Hz +- 0.075 mm, 58 - 500 Hz 1g
Operating: 0 °C to +50 °C / 20 to 85% non condensing, Storage: -20 °C to +60 °C / 5 to 95% non condensing
> 40.000 h*
~ 5.6 kg

KFM19_e

19.0" SXGA
85, 85, 85, 85
300 cd/m²
resisitive analog optional
Panelmount: 431 x 483 x 75 mm Rack Mount: 400 x 483 x 75 mm
black (RAL 7021)
Panel Mount / Rack Mount
Anti-corrosion heavy duty steel EN 10215-DX 51D+AZ 150-A-C
VGA SUB-D, DVI, S-Video, Composite Video
24 V DC integrated, AC integrated
Fanless
yes
Power LED

yes	
Power LED	
Power On/Off	
10.000 ft	
resisitive ana	log option

	15 g 11 ms half sine
	10 - 58 Hz +- 0.075 mm, 58 - 500 Hz 1g
	Operating: 0 °C to +50 °C / 20 to 85° non condensing, Storage: -20 °C to +60 °C / 5 to 95% non condensing
	> 40.000 h*
	~ 9.6 kg

KFM21_e

21.3" UXGA
85, 85, 85, 85
250 cd/m²
resisitive analog optional
Panelmount: 444 x 559 x 87 mm
black (RAL 7021)
Panel Mount
Anti-corrosion heavy duty steel EN 10215-DX 51D+AZ 150-A-C
VGA SUB-D, DVI, S-Video, Composite Video
230 V AC integrated
Fanless
yes
Power LED
Power On/Off
10.000 ft
resisitive analog optional
15 g 11 ms half sine
10 - 58 Hz +- 0.075 mm, 58 - 500 Hz 1g
Operating: 0 °C to +50 °C / 20 to 85% non condensing, Storage: -20 °C to +60 °C / 5 to 95% non condensing
> 40.000 h*
~ 10 kg

*excluding the Backlight Tube

Options (Fully Certified with System)

Shock DIN EN 60068-2-27

Temperature / Humidity

Vibration DIN EN 60068-2-6

HMI OEM Systems

Meeting Market Demands

Whatever your requirements – whether for automation, mechanical and systems engineering, machines or automated systems or even for applications in medical or safety technology – we can supply you with semi- and fully customized systems for your control and visualization applications. We will define and develop an industrial HMI system as a customized system solution that precisely meets your requirements. The HMI can be integrated directly into your installations and systems.

Quality and Innovation

As an innovative technology company, we have made it our business to create an information network for our customers, complementing our own top-of-the-line technological performance and offering our customers added value. This network includes project partnerships with companies who also develop and offer superior products and services for their customers. For example, the control and visualization software used in Kontron's HMIs represents added value for our customers in terms of user friendliness and real-world solutions.



Demanding customers select Kontron HMIs for:

- » Industrial Automation
- » Building Automation
- » Medical
- » Test and Measurement
- » Communications
- » Transportation
- » Point of Sale / Point of Interest

