➤ HMI Micro Clients

Kontron's Micro Clients (Thin Clients) are cost conscious human machine interfaces. They achieve a superior price/performance ratio through a combination of reduced hardware costs, reduced maintenance and support costs, reduced down time, improved performance and enhanced security. All programs run on a central web or Windows server, so that only visualization and user input proceed locally.

Shock and vibration resistance, thermal stability and compliance with the strictest EMC standards are standard features for all Micro Clients.

Designed to meet the performance requirements of visualization and communications over ethernet, the new Micro Clients M@C84, M@C104 and M@C121 have high-performance ETX-based x86 CPU modules that can be scaled inexpensively to meet changing performance needs. The innovative fanless cooling concept allows for a compact, space-saving system .





➤ HMI Micro Clients

Features	Micro Client M@C64	Micro Client M@C84	Micro Client M@C104	Micro Client M@C121
Display	6.4" TFT	8.4" TFT	10.4" TFT	12.1" TFT
Resolution	640x480	800x600	800x600	800x600
Brightness	300cd/m²	300cd/m²	300cd/m²	300cd/m²
Touch Screen	Resistive analog			
Function Keys	optional			
Dimensions (Panelmount) H x W x D	184 x 237 x 60 mm	188 x 257 x 47 mm	252 x 325 x 47 mm	300 x 380 x 49 mm
Processor	Geode™ GX1 300 MHz	x86		
Main Memory	up to 256 MByte SDRAM			
I/Os	1x RS232, (RS422/RS485 optional), 1x LAN 10/100, 1x USB	1x RS232, 1x LAN 10/100, 2x USB		
Field Buses	CAN bus			
Internal Drives	Compact Flash			
Power Supply	24 VDC			
Cooling	Fanless cooling concept			
EMC	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2 EN55022/A (CISPR22)			
Approvals	CE, FCC, cULus			
Protection Class	IP 65 front (NEMA 250 type 12 and 13)			
Altitude	Operating: 10000 ft (3,048m); storage: 15000 ft (4,622m)			
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			
Temperature/Humidity	Operating: 0° to +50°C / 5 to 95% non condensing Storage: -25° to +70°C / 5 to 95% non condensing			
MTBF	> 40000 h*			
Verified OS	Windows XP Embedded, CE.net, Embedded Linux	Windows CE.net, Embedded Linux		
RoHS compliant **)	-	✓		

*) Excluding the Backlight Tube **) RoHS compliant latest by June, 30th, 2006