HMI5104TH

CE RoHS Compliant

10.4" High Resolution Graphic HMI

- **Bright 65,536 (16-Bit) color TFT**
- **32 Bit CISC CPU, 400MHz**
- **128 MB Flash storage**
- **64 MB data memory**
- **Built-in Ethernet**
- **3 Serial Ports**
- **1 USB Host Port, 1 USB Client Port**
- **Support for Allen-Bradley EtherNet/IP and Modbus TCP/IP**
- **Up to four protocols simultaneously**
- **TrueType fonts and international characters**
- **Data logging/Data sampling**
- **Alarm and recipe management**

The Maple Systems HMI5104TH is a rugged graphic operator interface with a 10.4" 800 x 600 pixel resolution touchscreen TFT display — the same as a 12 inch, but in a 10 inch package. The nominal 2.0" depth makes mounting in tight spots easy. The fanless design means no extra space required for cooling.

The HMI5104TH has a 400 MHz microprocessor and large memory area that are necessary for complex and graphics-intensive projects. The extensive software features allow alarm management, batch recipes, and data logging; making your operator interface a more integral part of your automation control system.

You can easily give your system a professional look with this vivid display, extensive graphic libraries, and the ability to import custom BMPs, JPGs, or animated GIFs.

The HMI5104TH communicates simultaneously with multiple controllers. It is the perfect operator interface solution for your industrial environment in process control, packaging, water treatment, building automation, assembly line controls and many other applications.

The HMI5104TH is reliable, affordable, loaded with features, and easy to use. It is another smart solution from the operator interface experts.

Every Machine Needs the Human Touch

Maple Systems INC.

www.maplesystems.com

Hardware

CPU Type	32-Bit RISC 400MHz fanless CPU
Memory	128MB Flash, 64MB SDRAM
SD Card Slot	Yes
Ethernet Ports	10/100 Base-T (RJ45)
Serial Ports	Com1: RS-232/RS-485, 2 or 4 wire Com2: RS-232 Com3: RS-232/RS-485, 2 wire
Audio	Line Out
USB Ports	1 Host, 1 Client port
RTC	Built-in

Display

Type	10.4" TFT color
Size (WxH)	8.4 x 6.3 inches [213 x 160 mm] 10.4" diagonal
Resolution (pixels)	800 x 600
Brightness (cd/m^2)	300
Contrast Ratio	500:1
Max Colors	65536 (16 bit)
Viewing Angle (°)	55/65/65/65 (T,B,R,L)
Backlight	LED
Backlight Longevity	30,000 hrs

Touchscreen

Type	4-wire analog resistive
Resolution	Continuous
Light Transmission	Above 80%
Lifespan	1 million activations minimum

Environmental

Operating Temperature	32 ~ 122°F (0 ~ 50°C)
Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)
Relative Humidity	10% ~ 90% (non-condensing)
Shock (operation)	10 to 25Hz (X,Y,Z direction, 2G, 30 minutes)
Ratings	IP65, NEMA4, NEMA4X (indoor only)
Certifications	CE, FCC Class A

Specifications subject to change without notice.

Functionality

Networking	Modbus TCP/IP, AB EtherNet/IP, Remote Monitoring
Multiple Port Connectivity	Up to four protocols simultaneously
Data Transfer	Share data between HMIs and PLCs
Data Logging/Sampling	48MB internal memory – expandable, time/trigger-based
Hardware Options	Mouse, External Keyboard, Memory Storage, Barcode
Windows Fonts	Unicode support International characters
Multiple Languages	Up to 8 languages per object
Security	6 levels, 3 passwords per level Interlock Safety feature Visibility protection
Macros	Math functions, 32-bit Float support
Recipe Management	Up to 32,767 records Index Feature
Alarm Management	Four priority levels Organize by category Real-Time or History
Trending	Up to 20 channels Real-Time or History Time/Date Capture Watch Line Feature
Ease of Use	Popup windows Offline/Online Simulation Extensive Graphics Libraries PLC pass-through mode

Mechanical

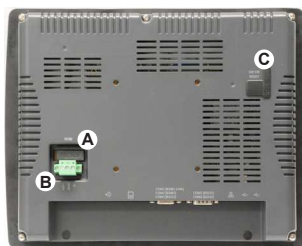|	
Enclosure	Plastic molding
Dimensions (WxHxD)	11.27 x 8.38 x 1.97 inches [286 x 213 x 50 mm]
Panel Cutout Dim. (WxH)	10.20 x 7.91 inches [259 x 201 mm]
Weight	3.4 lbs [1.6 kg]
Mounting	Panel mount or VESA 75 compatible
Power Requirements	24VDC, 300 mA
Warranty	2 years

Order Number

HMI5104TH	10.4" TFT Graphic OIT

HMI5104TH Dimensions

11.27 [286]

8.38 [213]

Front View

Rear View

A   Fuse
B   Power Connetor
C   Dust Cover
D   Line Out
E   SD Card Slot
F   Com Port DB9S
G   Com Port DB9P
H   Ethernet Port 10/100
I   USB Host
J   USB 2.0 Client

1.97 [50]

Bottom View

Dimensions in inches [mm]

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