

E1000

HMI Terminals

Open HMI Technology Expanding automation horizons



Perfect ergonomic design for easier use



New high performance Intel Xscale CPU with Windows CE.NET



USB host interfaces for standard PC and accessory



Compact flash slot for file transfer and data storage

The key to integrated automation



HMI terminals make maintenance easier by giving access to all information from one point.

High performance design

By combining the latest Intel XScale RISC processor with 32 MB of Strataflash and 64 MB RAM, the E1000 not only offers high performance while running Windows CE.NET but also security and "peace of mind". With this powerful combination of technology your valuable production data and machines operational information is protected even if a power failure occurs during a file write process.

Integration with the past

The E1000 is compatible with existing E series HMI solutions including the wide range of over 100 different drivers. This extensive library of drivers make the E1000 "open" for connection to industry leading PLCs, inverters, servo systems, networks and specialist control solutions from a wide range of industry leading manufacturers.



The two newcomers E1012 and E1022 complement the range of E1000 operator terminals.

The E1000 series of operator terminals provides a huge leap forward in display technology. Ergonomics and ease of use were central to the new series design. The E1000 proves again how open HMI technology can be the key to integrated automation.

Everything about the E1000 is representative of Mitsubishi's approach to automation, solid reliable designs, utilisation of high technology when it adds value and flexibility with operators in mind.

- External CF card slot for removable data storage card.
- Built in Ethernet interface (E1032 and above) for immediate connection and networking on local LAN, intranet or internet.
- 12 MB application memory as standard. Models from E1070 and above have expandable application memory by use of a Compact Flash card.
- Reduced development time due to intuitive programming.



Highly compatible

Integration with the present

The comprehensive range of communication options on the E1000 mean it's ready to talk with almost anything. It comes with built-in RS232 and RS422/485 ports as well as Ethernet (not for E1012 and 1022), which can be used to remotely manage the E1000. Once an Ethernet connection is enabled, remote program up/down load for program maintenance or for remote data collection is possible. In addition, by using E1000 utilities and tools, remote "viewing" of the locally displayed screen is also possible across an intranet or internet connection making sure you know exactly what is going on at a machine level.

Integration with the future

A USB host is available allowing you to add standard PC peripherals such as keyboard, mouse, printers and USB memory to your local E1000 operator terminal (not for E1012 and 1022).



Touch-Screen terminal, tough Aluminium casing - stands up to the industrial work place

Comfortable data access

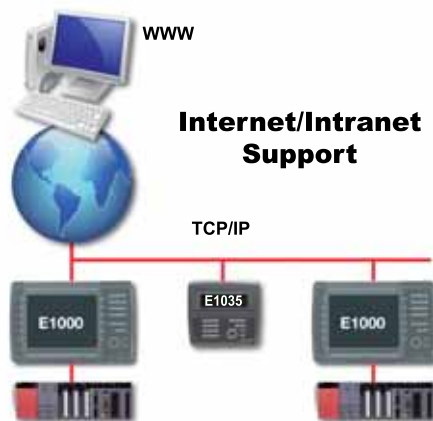
Data storage and sharing are important functions of the manufacturing process and operator terminals are quickly becoming the gateway to that data. The E1000 series makes access to data easier and more flexible than ever before. Users can choose between the use of:

- Combined Ethernet - Internet connectivity for factory wide or global access to data.
- Direct connection to a modem for a simple remote telemetry solution (GSM/GPRS/PSTN) where a system may be installed at an inaccessible location.
- A new external CF data card interface on the front of the E1000 also means data can be "taken" away on a removable data card for safe/permanent storage and processing.
- Local printing directly from the HMI display is also possible where a local hard copy of processed data is required.

New Pro+ type series

Using an E1000 Pro+ operator terminal gives the user all the functionality of the standard E1000 family but also makes it possible to view external files such as PDF files, HTML pages and PowerPoint presentations directly on the screen of the operator terminal.

Hereby the application retains numerous additional possibilities for even more flexibility.



Access via Internet/Intranet

Specifications ///

Model	E1012	E1022	E1032	E1060	E1041	E1043	E1061	E1063	E1070*	E1071*	E1100*	E1101*	E1151*	
Unit style	Function key	Function key	Function key	Function key	Touch screen	Touch screen	Touch screen	Touch screen	Function key	Touch-Screen	Function key	Touch screen	Touch screen	
CPU	RISC CPU (Intel Xscale) 32 MB Intel Strata Flash, 64 MB RAM													
Operating system	Windows CE.NET 4.2													
Display/ operation panel	display type	LCD, black/white	LCD, black/white	LCD, black/white	STN, 65536 colours	TFT, 65536 colours	TFT, 16 gray scales	STN, 65536 colours	STN, 16 gray scales	TFT, 65536 colours				
	backlight (dimmmable)	LED	LED	LED	CCFL	LED	LED	CCFL	CCFL	CCFL and burnout detection				
	display size		5,5"	5,5"	5,7"	3,5"	3,5"	5,7"	5,7"	6,5"	6,5"	10,4"	10"	15"
	resolution	160 x 32	240 x 64	240 x 64	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	640 x 480	640 x 480	800 x 600	800x600	1024x768
	function keys	6 with text field	6 with text field	8 with text field	16 / 8 with text field	—	—	—	—	16 / 8 with text field	—	22 / 10 with text field	—	—
	LED's	6	6	16	16	—	—	—	—	16	—	20	—	—
Interfaces	RS232	1 port (9 pin D-SUB)												
	RS485/422	1 port (25 pin D-SUB)												
	Ethernet	—	—	1 port (RJ45/TP) 10/100 Mbit/s										
	USB host	—	—	1 x for use with keyboard, mouse, printers, USB memorys etc., 127 diveces max. via hub										
	CF memory slot	—	—	—	—	—	—	—	—	1 x internal slot (for memory expansion 32 MB to 1024 MB)				
	CF memory slot (data storage)	—	—	—	—	—	—	—	1 x external CF card slot (for data capture/extraction)					
Power supply	+ 24 V DC (20 - 30 V) standard on all models													
Body	Case is made of cast aluminium													
Dimensions (mm) (W x H x D)	155 x 114 x 40	155 x 155 x 41	202 x 188 x 63	275 x 168 x 63	155,8 x 119 x 63	155,8 x 119 x 63	201 x 152 x 63	201 x 152 x 63	285 x 177 x 62	219 x 154 x 61	382 x 252 x 64	302 x 228 x 64	398 x 304 x 66	
Programming software	E-Designer version 7.20 (E1012 and E1022 are supported from version 7.40 or above)													

* The marked units are also available as Pro+ version.

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