

GE Intelligent Platforms

Operator Interface Products

12" QuickPanel* View Intermediate, Color and Monochrome

IC754VSI12CTD
IC754VBI12CTD
IC754VGI12CTD
IC754VSI12MTD
IC754VBI12MTD
IC754VGI12MTD

Hardware User's Guide, GFK-2306E

December 2010



Appendix A

Specifications

See page A-6 for a list of agency approvals for environmental service and safety.

Physical

Enclosure dimensions (actual – see “Panel Cutout” in chapter 3 for cutout dimensions)	Height: 8.93 in (226.8 mm) Width: 11.85 in (301.1 mm) Depth: 2.37 in (60.1 mm)
Bezel dimensions	Height: 10.34 in (262.6 mm) Width: 13.26 in. (336.8 mm) Depth: 0.38 in (9.7 mm)
Weight	5.2 lb (2.36 kg)

DC Power

Input Voltage	12 VDC (@ ±20% regulated power supply); or 24 VDC (@ ±20% regulated power supply)
Power Dip Tolerance	-30% nominal input voltage, 10msec.
Insulation Resistance	>200Mohm @ 1000V frame ground to 0V >200Mohm @ 1000V frame ground to 24
Real Power	36W
Power Supply Conductor Size	12 to 18 AWG For compliance to CE Mark, the isolated frame ground must be connected. Recommended frame ground connection is via the shortest possible route, using 14 AWG.
Connector (Vendor, p/n)	Phoenix Contact, 1777992

A

Display

Size	12" (30.5 cm) diagonal
Colors	Color model: 65536 (16 bits/pixel) Monochrome model: 256 shades of gray
Resolution	800 x 600
Fabrication	TFT
Backlight	Cold Cathode Fluorescent (CCFL) -rated half life: 50,000 hours. Note: Backlight is not field replaceable.
Luminance	400 NITS

Front Panel

Bezel Material	Valox 3706 For material specifications, visit www.gepolymerland.com
Membrane Material	Lexan HP60 For material specifications, visit gestructuredproducts.com
LEDs	
Bottom	Power status indicator (green with power applied, red if either backlight fails)
Top	Programmable tri-color (green, red, amber)

Touch Screen

Type	Resistive, 12 bit
Resolution (after calibration)	X axis: 800 cells Y axis: 600 cells (after calibration)

CPU

Processor	XScale
Clock speed	300 MHz

Memory

Flash	32 MB
SRAM	512 KB (Power off retention is the life of the battery)
DRAM	32 MB
ROM	512 KB (Boot loader)

Memory Expansion Slot

Form Factor	100 pin DIMM
Memory Type	SDRAM
Maximum DRAM	64 MB
Maximum Devices per Module	Four
Bus Width	32 bits
Bus Speed	100 MHz or faster
Voltage	3.3 VDC
CAS Latency	CL=3
Refresh Type	Self
Refresh Cycle Time	64 ms maximum
Error Correction	Non-ECC
Error Detection	No parity
Buffering	None
Device Row Addressing	12 Address Lines (A0 to A11)
Expansion Memory Catalog Number	64 MB, IC754ACC64MEM 32 MB, IC754ACC32MEM

A

Expansion Ports

Compact Flash Memory	One slot (Type I/II), supports 3.3V and 5V cards
Optional CF Card Catalog Number	512 MB, IC754ACC0512MEM
FieldBus	One slot

Communication Ports

Ethernet (LAN1)	IEEE 802.3
	10 BaseT/100 Base TX
	Auto-negotiate
	Full or half duplex
	RJ45 connector
	Two status LEDs per connector
	Maximum cable length: 100m
Serial COM1	EIA232C/EIA485, DP25S (female)
Speed	300 bps -115200 bps
Mounting hardware	M2.6 jackscrew
Fuse	1.0A, 125V fast blow cartridge type Littlefuse part #154001

A-4

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GFK-2306E

Environmental

Operating Temperature*	32°F to 122°F (0°C to 50°C)
Operating Humidity	10% to 85% non-condensing
Storage Temperature*	-4 to 158°F -20 to 70°C
Storage Humidity	10% to 85% non-condensing RH (non-condensing) at less than 50°C; maximum 50% RH at greater than 50°C.
NEMA Rating	4 and 4x when mounted in a comparably rated NEMA panel (NEMA 4 is approximately equivalent to IP66; visit www.nema.org)
Operational Vibration	IEC 60068-2-6 10—57Hz, 0.012" peak to peak displacement 57—500Hz, 1.0g acceleration
Operational Shock	IEC 60068-2-27 15g, 11ms (sine wave)

* Rated temperature limits refer to the ambient air temperature immediately surrounding (less than 3" or 7.6 cm) the QuickPanel inside the enclosure in which the QuickPanel is mounted. Additional provisions for remaining within the stated limits must be considered where additional, external thermal loads are imposed on the QuickPanel. These could include large heat producing motor drives, or power supplies in the same cabinet or in outdoor applications involving direct sun exposure.

Battery

Type	Panasonic BR2032 (3V, 190mAh, lithium)
Approximate	5 years

Calendar/Clock

Resolution	1 second
Accuracy	±2 to 3 minutes per month
Retention	Life of battery



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