



Main applications

- Application in harsh environments
- Human-machine interface (HMI)
- Control of machines and systems

Main features

- TFT display: 10.4", 12.1"
- Control keyboard
- High performance
- Modularity
- Easy access and maintenance
- Connectivity
- In Conformity with UL508

PROFILE

GT-C is a highly resource scalable control unit.

This version combines the typical functions of PC architecture with number of specific control application functions (such as use of the VxWorks operating system with SEVEN programming environment) in a compact frame.

GT-C can be used in industrial applications as a machine control unit with operator interface.

GT-C is fitted with a TFT display (10.4", 12.1") and can be integrated with a touch screen.

The Intel Celeron-m 400 MHz low power processor is used..

This provides extremely efficient heat dissipation with minimum use of the PC cooling fan.

The processor does not require ventilation. GT-C is fit with DOM-type solid state disks.

Thanks to the complete series of available ports (Ethernet, USB, serials, parallel, PS/2, etc.), GT-C can be connected to the various peripherals commonly used by industry.

Optional custom interfaces and standard PCI and PC104 expansion slots provide maximum connectivity.

Available interfaces include CAN bus,

RS422/485 serial expansions and additional Ethernet channels.

A number of functions, such as keyboard control, LEDs, and switch-on logic output with programmable timer, are useful for controlling machines and industrial lines. The front panel can be customized thanks to configurable keys (cards can be inserted under the keyboard membrane for special needs).

Custom keyboards can also be designed. Careful construction and mechanical design make it easy to install and give correct access to expansions. Simple maintenance guarantees long life and reliability.

TECHNICAL DATA

PROCESSORS

- Intel Celeron™ 400 Mhz 128 kb Cache L2

CHIPSET

- VT8603C/vt82C686b

GRAPHICS CARD

- S3Savage 4 (VT8606) AGP 8 Mb di RAM video

DISPLAY

- 10,4" color TFT res. 800x600 pixel 262K col.; angle of view 120°/100° H/V contrast 500:1, luminosity 230 cd/m²
- 12.1" color TFT res. 800x600 pixel 262k Col. angle of view 140/110H/V , contrast 500:1, luminosity 600 cd/m²

DYNAMIC RAM

- 128Mb –512Mb SODIMM PC133

STATIC RAM

- 256Kb with lithium backup battery

MASS STORAGE

SSD

- DOM 64Mb, 128Mb, 512Mb

Magnetic

- FDD (optional: to be connected to specific port)

I/O PORTS

- 2 RS 232 serial ports
- 2 USB 1.1 ports
- 1 RJ45 10/100Mbps Ethernet port
- 1 VGA port for external monitor
- PS/2 ports for keyboard and mouse
- Centronics parallel port
- Synchronous serial port for matrix control max. 128 keys and 64 LEDs
- 24 VDC logic output, open collector, max 100 mA optically isolated for switch-on with programmable timer; can be activated even with system off.
- Connector for external battery

EXPANSIONS

- 1 PCI slot
- 1 PC104 16 Bit slot for 3 modules max.
- 4 Custom slots for optional interfaces
- 2 PCMCIA type II slots or 1 type III slot on request

DIAGNOSTICS

- Front-panel LED with function indication
- Alarm and rear state LED

OPTIONAL INTERFACES

- GT-SER2 module: 2 COM3, COM4 serial ports 2xRS232/RS422/RS485, optically isolated

COM4 is not available if a touch screen is installed. .

- GT-CAN1 module:
1 optically isolated CAN L2 channel; Intel 82527CAN controller
- GT-CAN2 module:
2 optically isolated CAN L2 channels; Intel 82527CAN controller
- GT-ETH1 module:
1 Ethernet channel 10/100 Mbps Intel 82551ER Ethernet controller
- GT-ETH2 module:
2 Ethernet channels Intel 82551ER Ethernet controller (see specific documents)

KEYBOARD AND CURSORS

- Machine control keyboard with 100 keys and 49 LEDs
- Optional 5-wire 12" touch screen

POWER SUPPLY

- 18..30 Vdc 2,5A max. with polarity protection
- Galvanic insulation
- Short circuit protection with resettable PTC
- ON/OFF switch

OPERATING SYSTEM

- VxWorks™

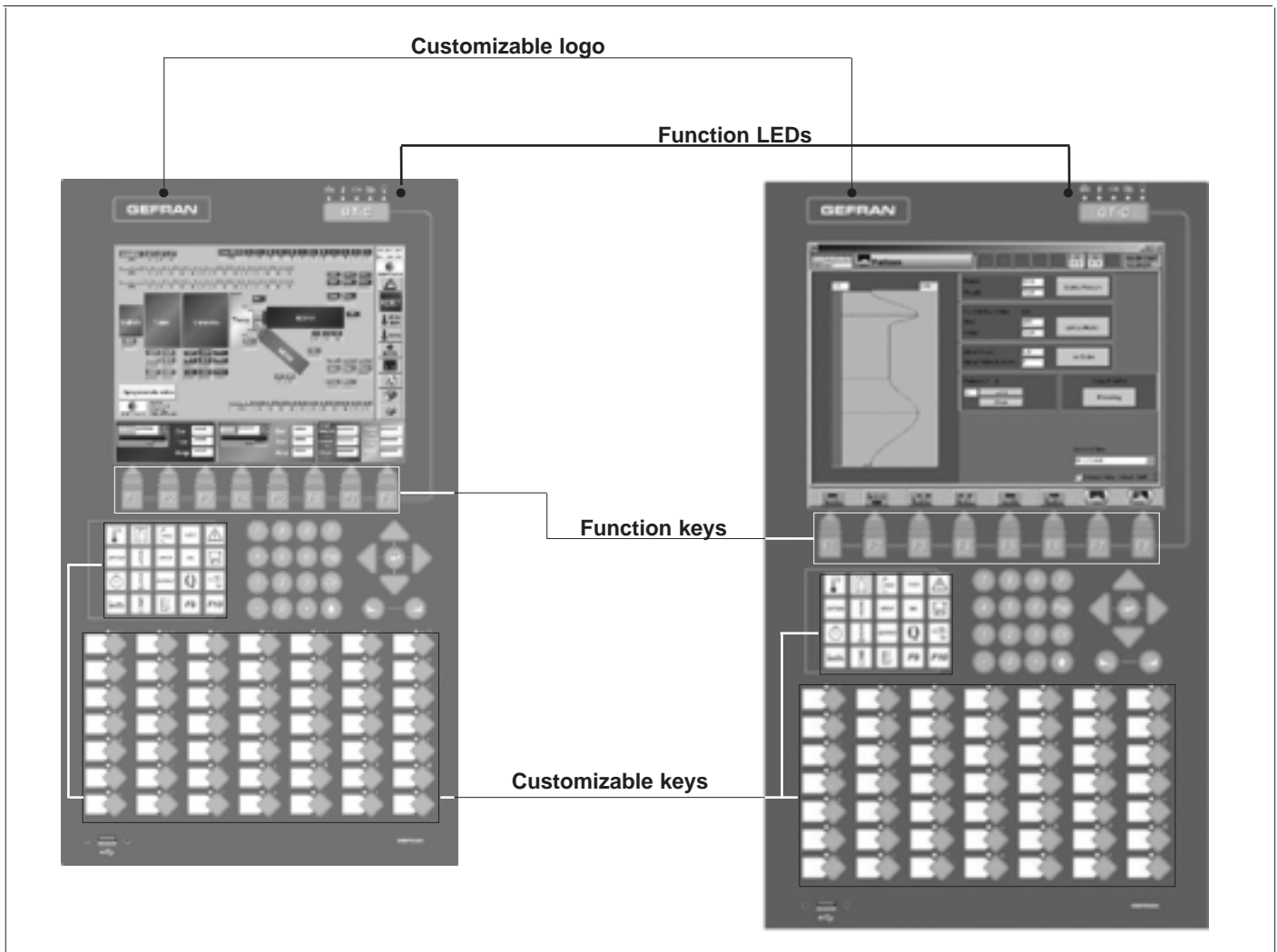
AMBIENT OPERATING CONDITIONS

- IP 65 front panel protection
- Operating temperature 0°C..+50°C
- Storage temperature -10°C..+70°C
- Humidity: 90% max., non-condensing

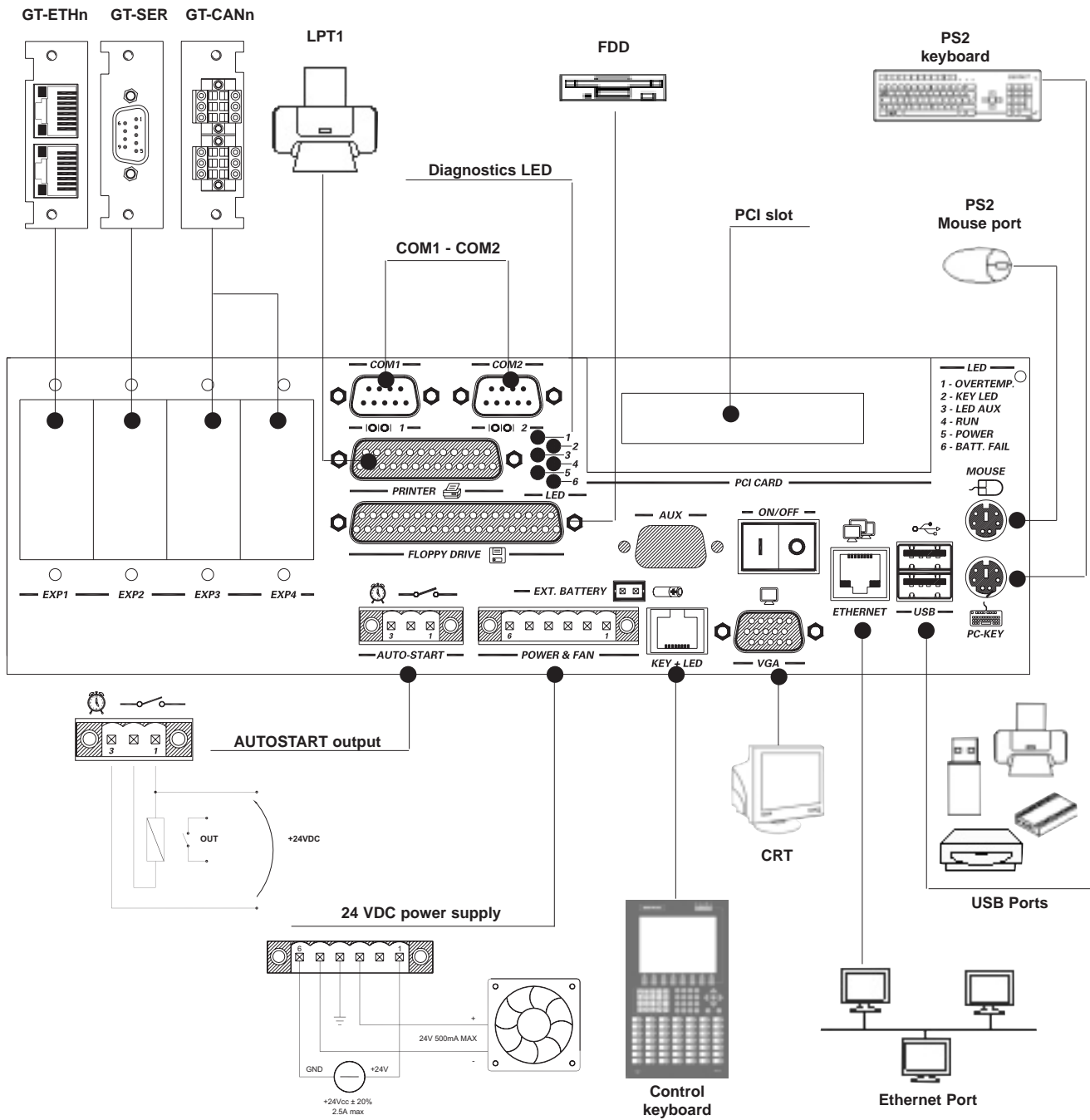
DIMENSIONS AND WEIGHT

- With 10.4" display:
309x239x117 mm – 4 Kg max
- With 12.1" display:
33x295x117 mm – 5 Kg max

FRONT PANEL



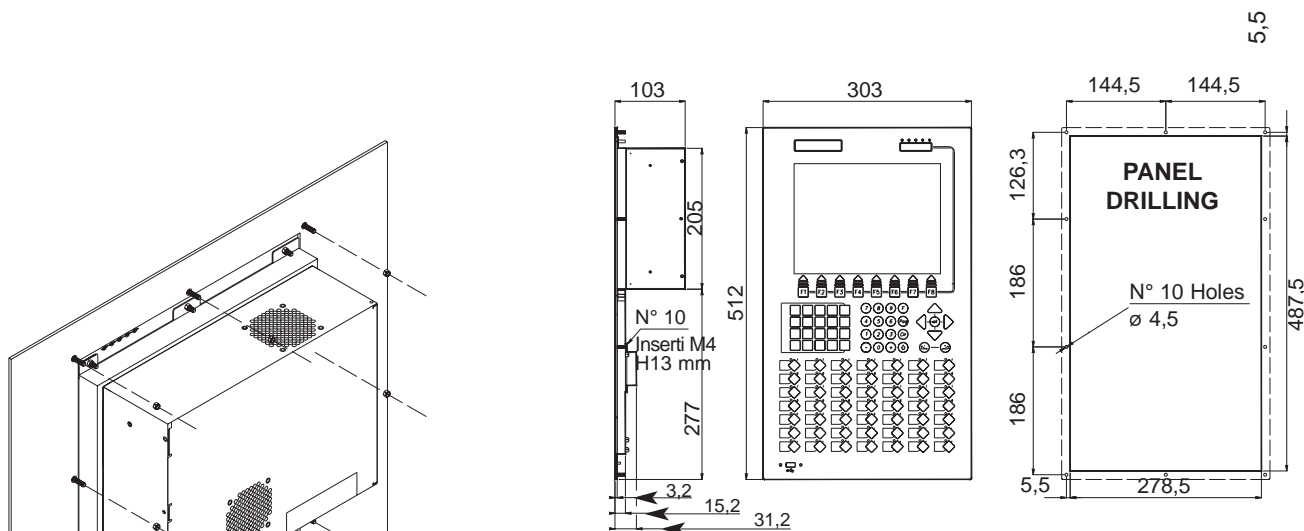
CONNECTIONS and OPTIONS



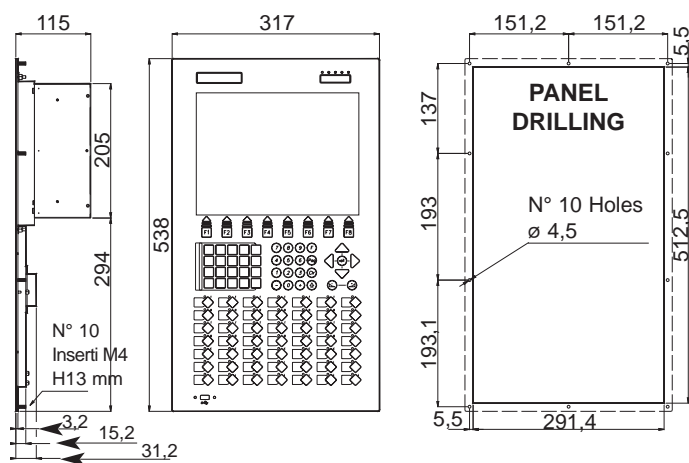
INTERNAL VIEW AND CONFIGURATION OPTIONS



Dimensions and drilling template for 10.4" GTC



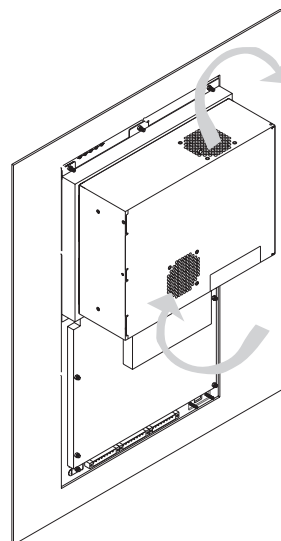
Dimensions and drilling template for 12.1" GTC



Installation warnings

DO NOT install the product in devices or boxes without adequate air circulation or heat exchange sufficient to maintain the temperature below 50°C.

When installing the product, be careful to position it so as to prevent accidental knocking.



ORDER CODE

GT-C

MODEL	
10.4" 800x600 *	10
12.1" 800x600	12
12.1" 800x600 touch	12T

OPERATING SYSTEM	
Not installed *	00
Vx Works™	VW

PROCESSOR	
Celeron™ 400 MHz *	C40

DYNAMIC RAM	
sodimm 128 MB *	R128
sodimm 256 MB	R256

DOM & HD	
dom 64 MB *	D064
dom 128 MB	D128
dom 512 MB	D512

SYNOPTIC	
000	None *
001	Standard Gefran
002	Injection
003	Blowing
xxx	Custom version

CUSTOM SLOT 4 EXPANSION	
00	None *
C1	GT-CAN1:1 channel CAN
C2	GT-CAN2: 2 channels CAN

CUSTOM SLOT 3 EXPANSION	
00	None *
C1	GT-CAN1:1 channel CAN
C2	GT-CAN2: 2 channels CAN



CUSTOM SLOT 2 EXPANSION	
00	None *
SR	GT-SER2: 2 serials

CUSTOM SLOT 1 EXPANSION	
00	None *
E1	GT-ETH1: 1 channel ethernet
E2	GT-ETH2: 2 channels ethernet

* standard model

Kindly contact GEFRAN for information on available codes.

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice

	Conformity UL508 File no. E198546
	The instrument conforms to the European Directives 2004/108/CE and 2006/95/CE with reference to the generic standards: - EN 61000-6-2 (immunity in industrial environments) - EN 61000-6-3 (emission in residential environments) - EN 61010-1 (safety) - EN 61161-2 (product standard). The Declaration of conformity is available on GEFRAN web: www.gefran.com

GEFRAN

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