



### Main applications

- Machine control:
  - Plastics
  - Packing
  - Wood
  - Metalworking

### Main features

- 10.4" display
- Resolution 800x600 (SVGA)
- Touch screen: resistive, analog
- Field bus connectivity (CANOpen, Modbus RTU, Modbus TCP)
- Ethernet 10/100 BaseT
- Fan less
- Solid State Disk (DOM)
- Programmable with:
  - Gefran Automation Builder
  - VedoWin
  - Scada

### PROFILE

The GF\_VEDO line of operator terminals offers a compact and economic system for machine control.

Machine cycle control [IEC1131 based Soft PLC] and graphic page display [SCADA] are integrated in a single product.

This integration provides a variety of quick and economical automation solutions.

The GF\_VEDO TL 104CT is offered with a 10.4" TFT active matrix display, with resolution of 800x600 pixel (SVGA).

The processor belongs to the GEODE family (32 bit), with a minimum of 128 MB to a maximum of 256 MB of RAM, depending on the operating system installed.

An extremely important feature is the complete absence of moving parts: a DOM [DiskOn-Module] mass memory of various capacity [64MB...1G] is used, offering maximum safety even in the presence of strong vibration.

A wide range of peripheral I/O is available:

- 1x RS485 optoisolated
- 2xEthernet 10/100 Base-T
- 2xUSB 1.1
- Fieldbuses keyboard

- Auto-ON
- 1xRS232
- PS 2 Mouse and Keyboard
- CAN layer

The product can be ordered with different operating systems already installed, such as:

- VxWorks
- Windows XP Embedded

This solution allows the creation of various automation architectures (including real time) and the use of software from other suppliers.

The GF\_VEDO family includes products with display from 3.5" to 10.4", with or without integrated machine keyboards.

In addition "ready-to-use" application are available, such as:

- GF\_PACK\_EXTRUSION for extrusion application
- GF\_PACK\_INJECTION for injection application

### TECHNICAL DATA

#### DISPLAY

Type:	TFT Color
No. colors:	262.144
Size:	10,4"
Resolution:	800x600 (SVGA)
Luminosity:	230 cd/m2
Contrast:	500:1

#### TOUCH SCREEN

Type:	Resistive, 4 leads
Life:	1.000.000 operations
Controller:	integrated

#### PROCESSOR

Type:	GEODE SC1200
Frequency:	266 MHZ
Core:	x86

#### MEMORY

System memory (DRAM):	128-256 MB
Mass memory (DOM):	64 MB-1 GB
User memory (SRAM):	2 MB

#### OS SUPPORTED

VxWorks  
Windows XP Embedded

**GENERAL DATA**

Front dimensions: 266x192,5mm  
 Drilling dimensions: 258x184mm  
 Weight: 1,4 Kg  
 Front panel protection: IP65  
 Working temperature: 0...50°C  
 Storage temperature: -20°C...70°C  
 Humidity: 5...95% non-condensing (IEC 68-2-3)  
 Power supply: 24Vdc ±25%,50W  
 Certifications: CE, UL

Name: RS485  
 Connector: RJ10 4p4c  
 Optically isolated: YES  
 Baud rate: 9,6...115 kBaud

Name: USB  
 Type: 2xUSB 1.1 HOST  
 Connector: Type A (500mA)

Name: KEY & LED  
 Function: Fieldbuses keyboard  
 Connector: RJ45 (without LEDs)  
 Optically isolated: NO

Name: AUTOSTART  
 Function: Auto-ON  
 Connector: 3-pin female, screw-type  
 24Vdc ±25%, 100mA

Name: MOUSE  
 Connector: standard PS2 miniDIN  
 6 pin (Mouse violet)

Name: PC-KEY  
 Connector: standard PS2 miniDIN  
 6 pin (green)

Name: CAN  
 Function: CAN layer 2  
 Connector: 6 pin female, spring type

Name: RS232  
 Connector: D-Sub 9-pin male  
 Optically isolated: NO  
 Baud rate: 9,6...115 kBaud

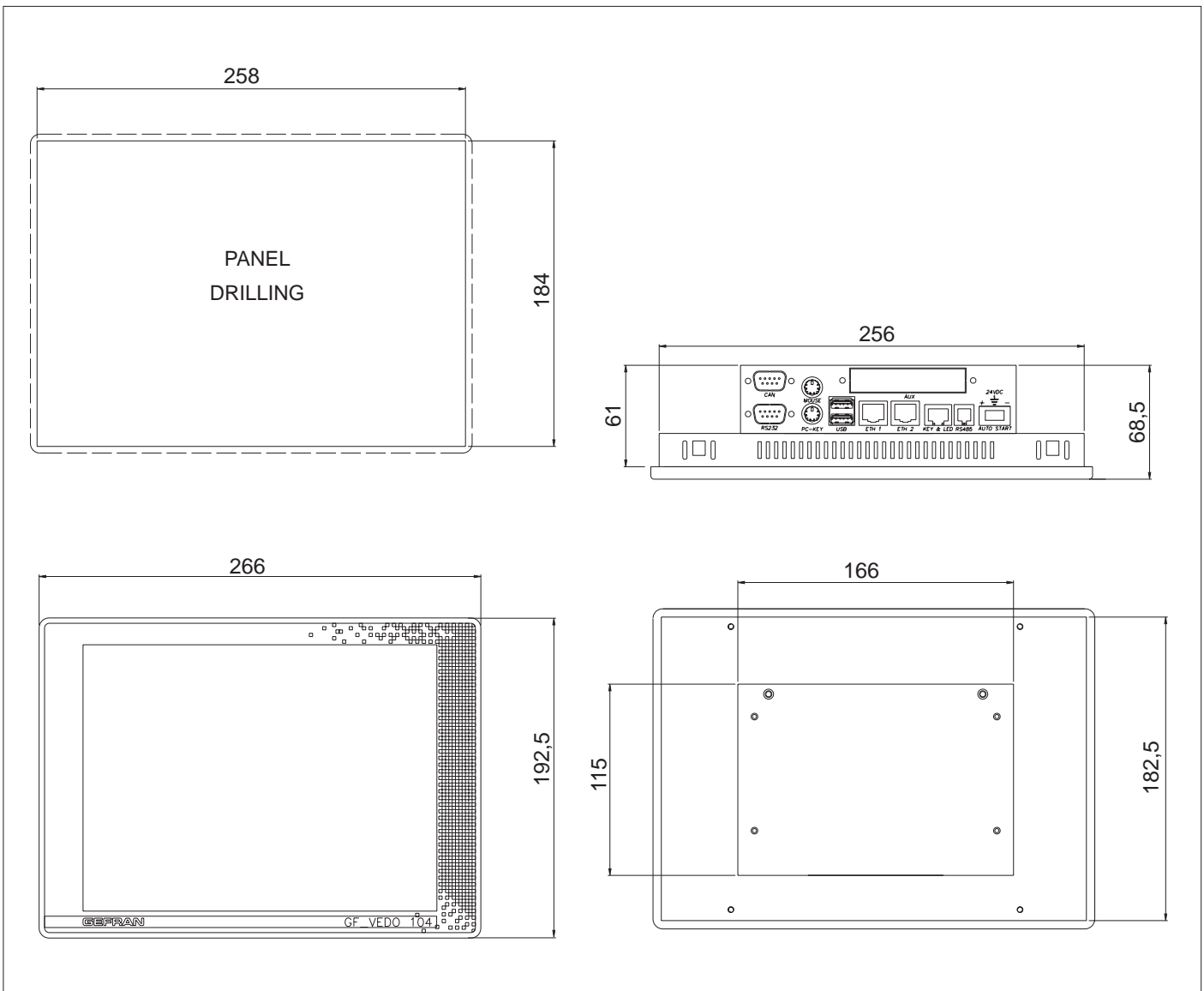
Name: AUX  
 Function: future expansions

**PERIPHERAL I/O**

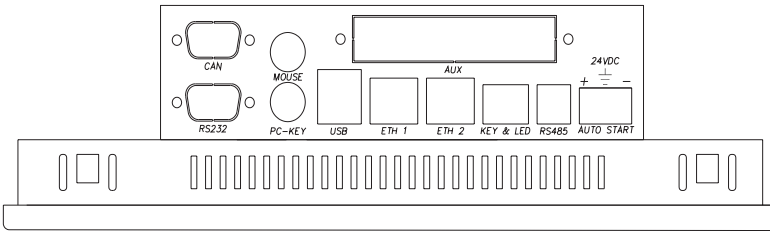
Name: ETH1  
 Type: Ethernet 10/100 Base-T  
 Connector: RJ45 with LEDs

Name: ETH2  
 Type: Ethernet 10/100 Base-T  
 Connector: RJ45 with LEDs

**DIMENSIONS AND CUT OUT**

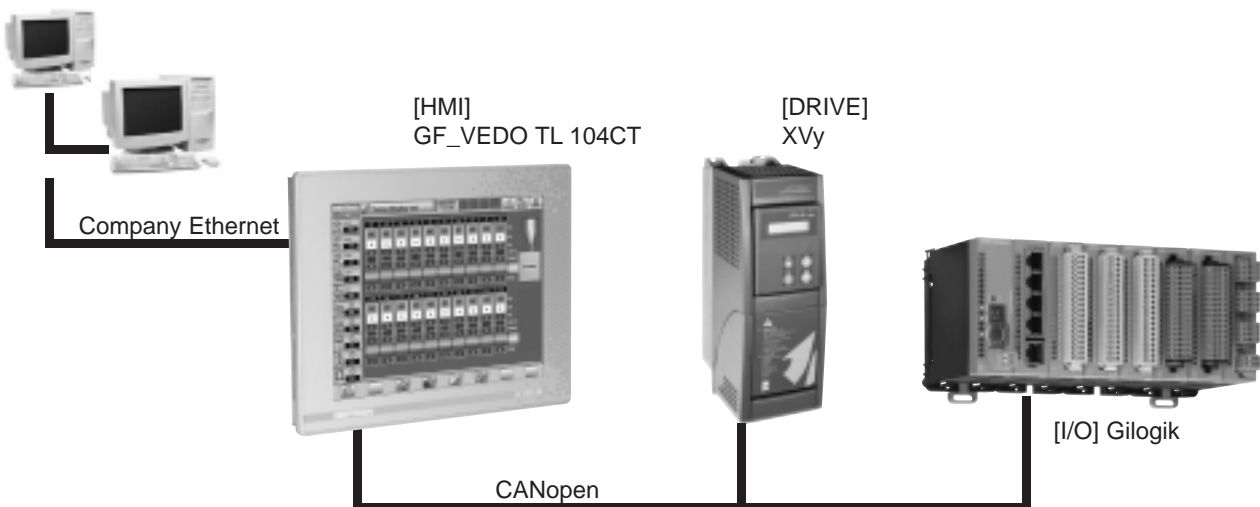
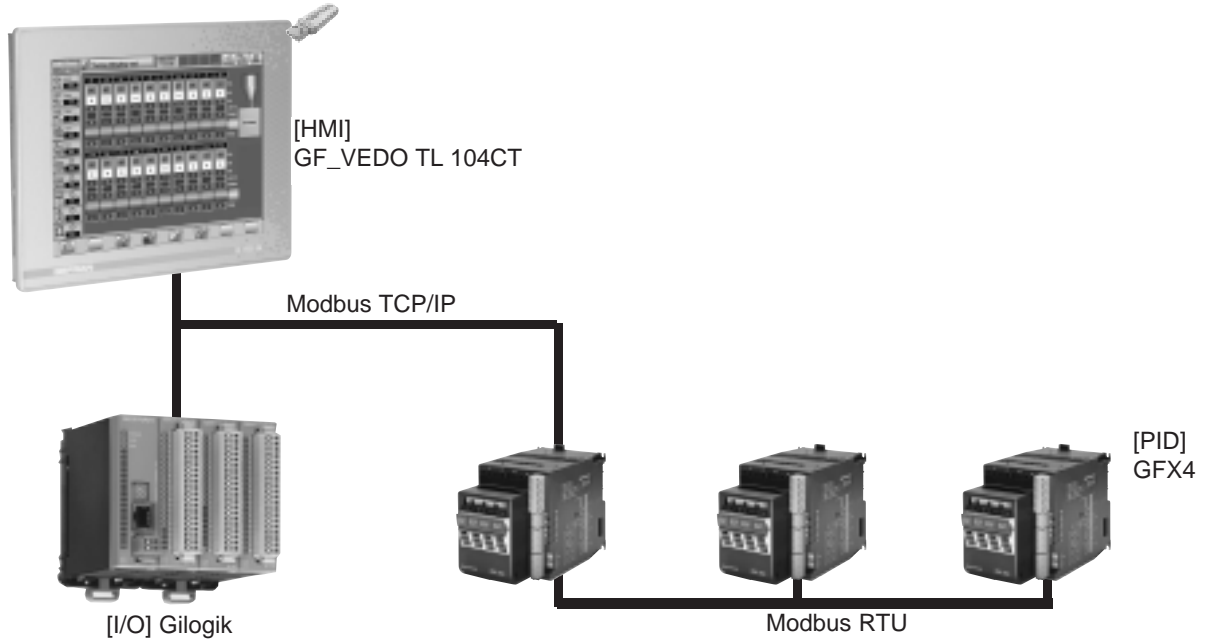


## CONNECTIONS



Name	Description
CAN	CAN layer 2
RS232	RS-232 serial not isolated
MOUSE	Mouse PS2 (Violet)
PC-KEY	Keyboard PS2 (Green)
USB	USB 1.1 Host (500mA)
ETH1	Ethernet 10/100 Base-T
ETH2	Ethernet 10/100 Base-T
KEY & LED	Fieldbuses keyboard
RS485	RS-485 serial optoisolated
AUTO START	Auto-ON
24VDC	Power supply
AUX	Auxiliary

## CONNECTION EXAMPLES



## ORDER CODE

GF\_VEDO 104CT 00 00 00 00

MODEL	
GF_VEDO TL 104CT	104CT

OPERATING SYSTEMS	
VxWorks DOM: 64MB RAM: 128MB	VW0
WinXP Embedded DOM: 1GB RAM: 256MB	XE0

EXPANSION 1	
None	00
CANopen	C1
DeviceNet	D1 <sup>(1)</sup>

EXPANSION 2	
None	00
RS232 + Autostart	S1

LEXAN	
Gefran	G
Neutral	N <sup>(2)</sup>

<sup>(1)</sup> <sup>(2)</sup> Please, contact GEFRAN sales people for the codes availability.

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice

## ACCESSORIES

<b>Battery</b>	Battery CR2430 Lithium 3V	<b>S7085</b>
<b>Keyboards</b>	Fieldbuses keyboard to manage movements Keyboard to integrate electromechanical buttons	<b>TF32-104</b> <b>TE8-104</b>
<b>Supply</b>	Stabilized supply 100....240Vac/24Vdc, 5A	<b>GF_PS5</b>
<b>Software</b>	Preloaded software package for complete management of injection presses Preloaded software package for complete management of extrusion lines Integrated programming environment Software platform for SCADA applications	<b>GF_PACK INJECTION</b> <b>GF_PACK EXTRUSION</b> <b>Gefran Automation Builder</b> <b>VedoWin</b>



Conformity UL508 Certif. 20080331 File no. E198546



In conformity to 2004/108/CE (EMC) and 2006/95/CE (LVD) with reference to standards: **CEI-EN 61131-2** (product) - **EN 61010-1** (safety).

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