



Main applications

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

Main features

- 12.1" 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.

Thanks to the use of DOM (DiskOnchip) solid state mass memory, the GF_VEDO HL series is completely DiskLess and FanLess, and is very compact. The result is an extremely sturdy and reliable product that can be installed (IP65 front panel protection level) in extremely severe work environments.

GF_VEDO HL 121CT is offered with a 12" TFT active matrix display, with resolution of 800x600 pixel (SVGA).

Intel® Celeron® M (ULV) 600MHz and Intel® Celeron® M 1.5GHz processors are used. Available RAM (SO-DIMM DDR) varies from a minimum of 256MB to a maximum of 1GB, depending on the operating system selected.

Available mass memory (DOM) varies

from a minimum of 128MB to a maximum of 4GB, depending on the operating system selected.

A wide range of communication peripherals are available:

- 2x Ethernet 10/100 Base-T
- 2x USB 2.0 (Host)
- 1x RS485 optoisolated
- PS/2 Mouse and Keyboard
- 1 x Fieldbus [optional] (CAN Layer 2)
- 1 x COM RS232 [optional]
- 1 x COM RS485/RS422/RS232 [optional]

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 HL can be used with TF48 (48 keys/LEDs) keyboards for the 12" model and with TF64 (64 keys/LEDs) keyboards for the 15" model.

TECHNICAL DATA

CPU

- Intel Celeron M 600 MHz
- Intel Celeron M 1500 MHz

CHIPSET

- Intel TM 852GM, 400 Mhz FSB

CONTROLLER VIDEO

- Intel TM Extreme Graphics 2 Controller

DISPLAY

Type:	TFT Color
No. colors:	262.144
Size:	12,1"
Resolution:	800x600 (SVGA)
Luminosity:	450 cd/m2
Contrast:	1000:1

TOUCH SCREEN

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

MEMORY

System memory (DRAM):	256-512 MB
Mass memory (Compact Flash):	1GB-2GB

OS SUPPORTED

- VxWorks
- Windows XP Embedded

GENERAL DATA

Front dimensions: 305x231mm
 Drilling dimensions: 295x222mm
 Weight: 2,9 Kg
 Front panel protection: IP65
 Working temperature:
 Model PCE 600MHz: 0°C..+45°C
 Model PCS 1500MHz: 0°C..+40°C

Storage temperature: -20°C...70°C
 Humidity: 5...95% non condensing (IEC 68-2-3)

Power supply: 24VDC ±25%,60W
 Certifications: CE, UL (awaiting certification)

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

Name: COM1

Type: RS485 (optoisolated)
 Connector: D-Sub 9 pin male
 Baud rate: 9,6...115 kBaud
 Name: COM2 [optional]
 Type: RS232 (No Optically isolated)
 Connector: D-Sub 9 pin male
 Baud rate: 9,6...115 kBaud

Name: COM3 [optional]
 Type: Configurable
 default RS485 (Optically isolated)/
 RS422 (Optically isolated)/
 RS232 (No Optically isolated)
 Connector: D-Sub 9 pin male
 Baud rate: 9,6...115 kBaud

Name: USB
 Type: 2xUSB 2.0 HOST
 Connector: Type A (500mA)

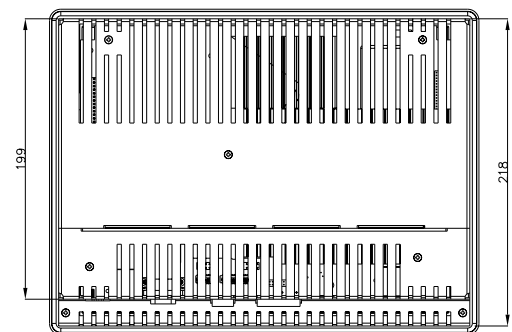
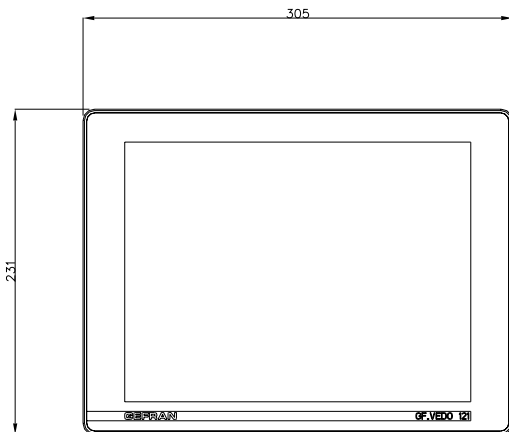
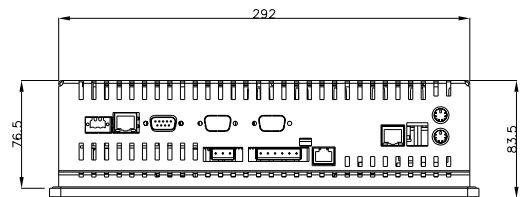
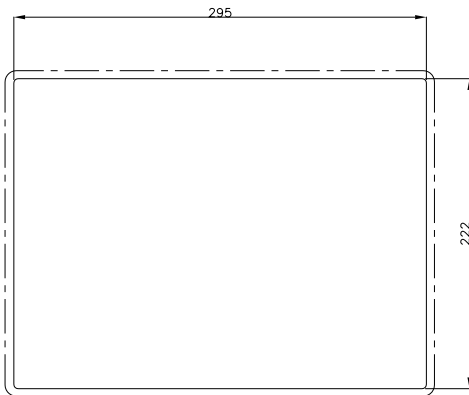
Name: KEY & LED
 Function: Fieldbuses keyboard
 Connector: RJ45 (without LEDs)
 Optically isolated:NO

Name: AUTOSTART

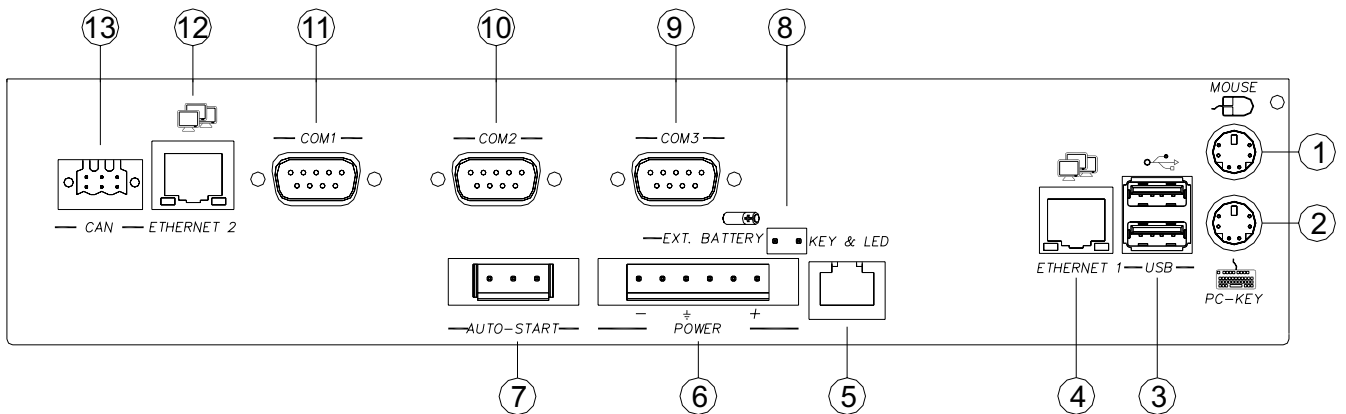
Function: Auto-ON
 Connector: 3-pin female, screw-type
 24Vdc ±25%, 100mA
 Name: MOUSE
 Connector: standard PS2 miniDIN
 6 pin (violet)

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

Name: CAN [optional]
 Function: CAN layer 2
 Connector: 6 pin male

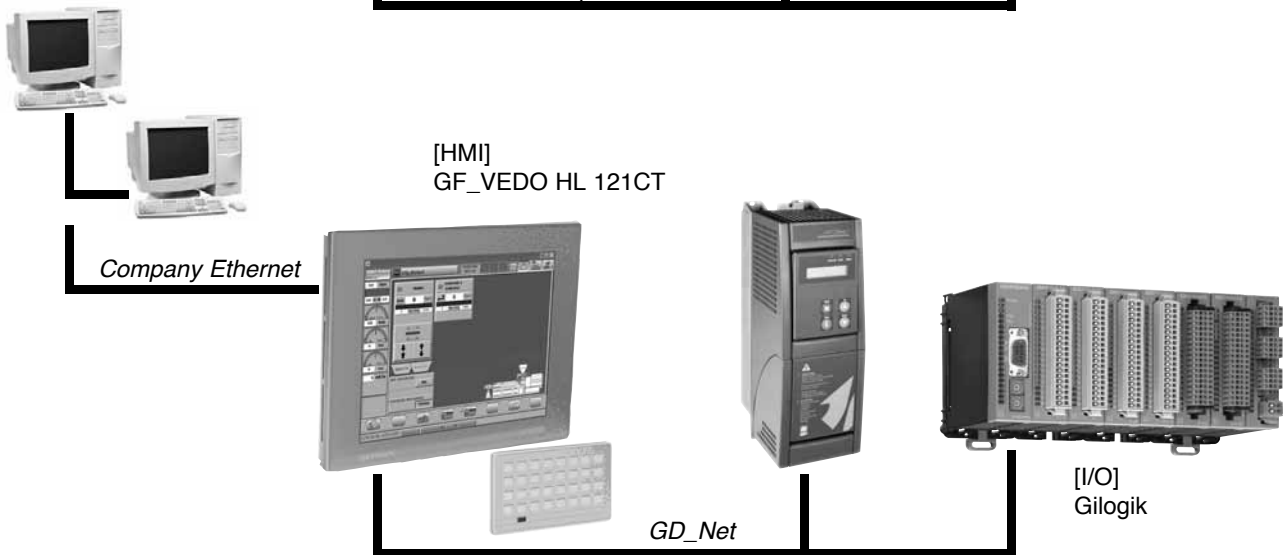
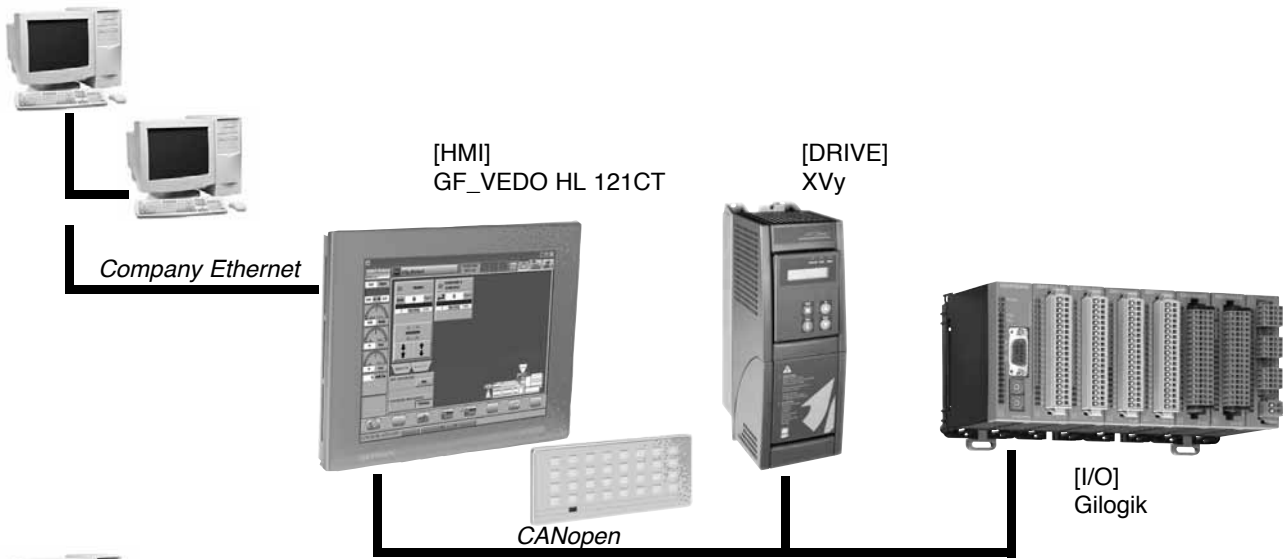
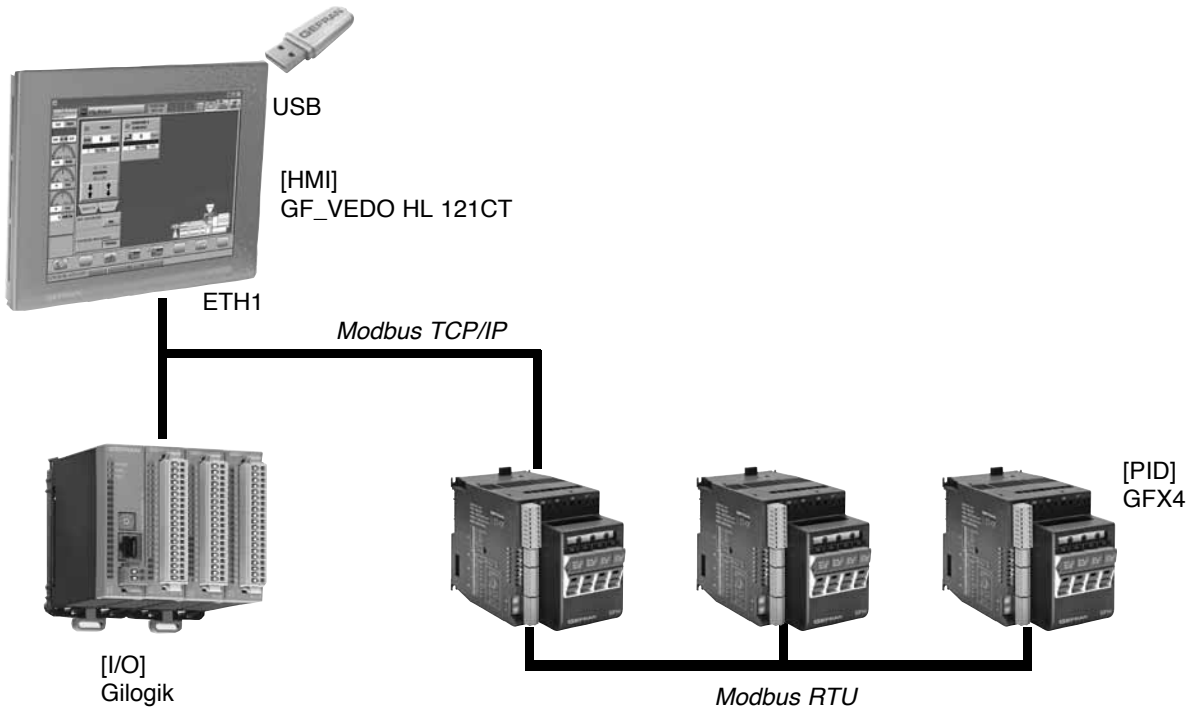
DIMENSIONS AND CUT OUT

CONNECTIONS



Nr	Name	Description
1	MOUSE	Mouse PS/2 (green)
2	PC-KEY	Keyboard PS/2 (violet)
3	USB	USB 2.0 Host (500mA)
4	ETH1	Ethernet 10/100 Base-T
5	KEY & LED	Fieldbuses keyboard
6	POWER	Power supply
7	AUTO -START	Auto-on
8	EXT BATTERY	External battery 3,6V
9	COM3	Serial COM3 RS485 (RS422/RS232) [optional]
10	COM2	Serial COM2 RS232 [optional]
11	COM1	Serial COM1 RS485
12	ETH2	Ethernet 10/100 Base-T
13	CAN	CAN layer 2 [optional]

CONNECTION EXAMPLES



ORDER CODE

GF_VEDO HL		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MODEL							
GF_VEDO_HL 121CT	121CT						
OPERATING SYSTEMS							
VxWorks DOM: 128MB RAM: 256MB	VW2						
VxWorks DOM: 128MB RAM: 1GB	VW1						
WinXP Embedded DOM: 1GB RAM: 256MB	XE0						
WinXP Embedded DOM: 4GB RAM: 1GB	XE1						
PROCESSOR							
Intel Celeron M 600MHz	PCE						
Intel Celeron M 1500MHz	PCS						
EXPANSION 1							
None	00						
CANopen	C1						
EXPANSION 2							
None	00						
2 serial channels COM2 COM3	S2						
LEXAN							
Gefran	G						
Neutral	N						

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

Keyboards	Fieldbuses keyboard to manage movements.....	TF48-121
	Keyboard to integrate electromechanical buttons.....	TE8-104
Supply	Stabilized supply 100...240Vac/24Vdc, 5A.....	GF_PS5
Software	Preloaded software package for complete management of injection presses.....	GF_PACK INJECTION
	Preloaded software package for complete management of extrusion lines.....	GF_PACK EXTRUSION
	Integrated programming environment.....	Gefran Automation Builder
	Software platform for SCADA applications.....	VedoWin



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



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