GEFRAN

GF_VEDO 35CT

Integrated operator terminal

Main applications

- *Machine control:*
  - *Heat treatments*
  - *Packing*
  - *Wood*
  - *Metalworking*
  - *Climatic chambers*
  - *Dryers*
  - *Plastic auxiliaries*

Main features

- *3,5" TFT colors display*
- *Resolution 320x240 pixels (QVGA)*
- *Touch screen: resistive, analog*
- *Field bus connectivity (CANOpen, Modbus RTU, Modbus TCP)*
- *Ethernet 10/100 BaseT*
- *Integrated SoftPLC [IEC61131-3]*
- *No hard disk*
- *Programmable with: Gefran Automation Builder*

PROFILE

"All-in-One"
HMI, SoftPLC and remote I/Os, completely integrated in a single product.
The GF_VEDO 35CT operator terminal offers maximum compactness and integration of all elements in an automation architecture.
The display section has a 3.5" color (262K) TFT display with 320x240 pixel (QVGA) resolution, 200:1 contrast and luminosity of 300cd/m^2.
Visual angle O/V: 45°/15°-35°.
Integrated touch-screen, resistive, four wires.
The front panel has six freely programmable function keys [F1...F6].
The bottom section houses the communication ports (including the Ethernet 10/100 supplied as standard) used for programming and diagnostics or for transmission via Modbus TCP protocol.
Other ports, such as USB, RS485 [Modbus RTU] and CAN [CANopen or DeviceNet] are optional.
The product integrates with GILOGIK II I/O modules via the BUS-G connector at the rear of the product.
The back-plane [L-BUS4] inserted into the BUS-G connector lets you install up to four of any module in the GILOGIK II series to quickly and flexibly create a variety of automation solutions.
The SoftPLC is programmed and graphics pages are created with a single programming environment called Gefran Automation Builder [GAB].
This software can be used to program all products in the GF_VEDO family.
The product offers the highest resistance to vibration and shock, and has a front panel protection level of IP65.
These characteristics make it ideal for use under harsh environmental conditions.

TECHNICAL DATA

DISPLAY
Type: TFT colors
No.colors: 262k
Size: 3,5"
Resolution: 320x240 pixel (QVGA)
Luminosity: 300 cd/m^2
Contrast: 200:1
Backlighting: 6 LEDs white
Visual angle O/V: 45°/15°-35°

TOUCH SCREEN
Type: Resistive, 4 wires
Life: 1.000.000 operations
Controller: integrated

PROCESSOR
Type: EP9307 Cirrus Logic
Frequency: 200 MHz
Core: ARM9

MEMORY
System: 64 MB (DRAM)
User: 256 KB (SRAM)
Mass: 64 MB (FLASH)

OS SUPPORTED
Linux
Windows CE

GENERAL DATA

Front dimensions: 100x100x64mm
Drilling dimensions: 93x93mm
Weight: 0,4 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, -15% +20%
Max consumption:
- (without integrated I/O) 240mA, 5W
- (with integrated I/O) 360mA, 7W

Certifications: CE, UL
(awaiting certification)

PERIPHERAL I/O

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

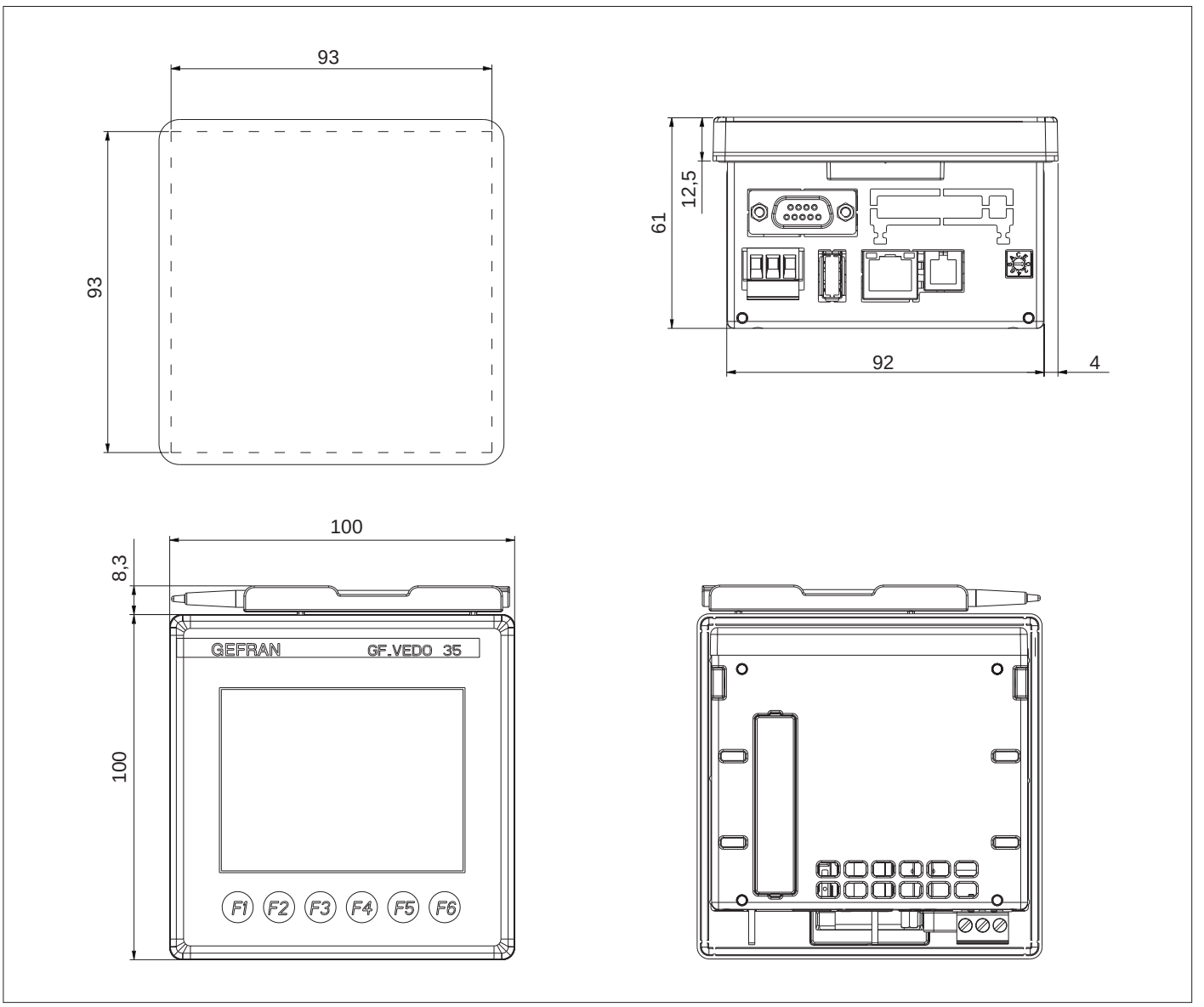
Name: RS485
Type: RS485 serial
Connector: RJ10 4p4c
Optically isolated: YES
Baud rate: 9,6…115 kBaud

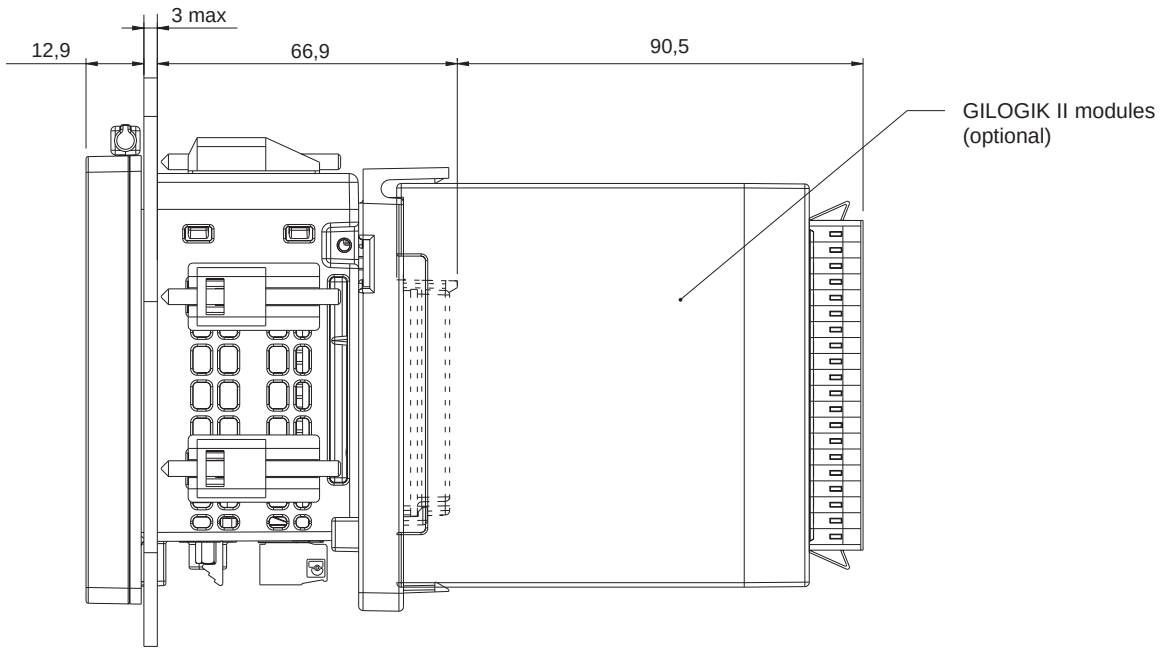
Name: USB
Type: USB 2.0 HOST (500mA)
Connector: 4-pin type A

Name: CAN
Function: CAN layer 2
Connector: D-Sub 9PM (CANopen)
5-pin male (DeviceNet)
Baud rate: 20k...1Mbit/s (CANopen)
125k...0,5Mbit/s (DeviceNet)

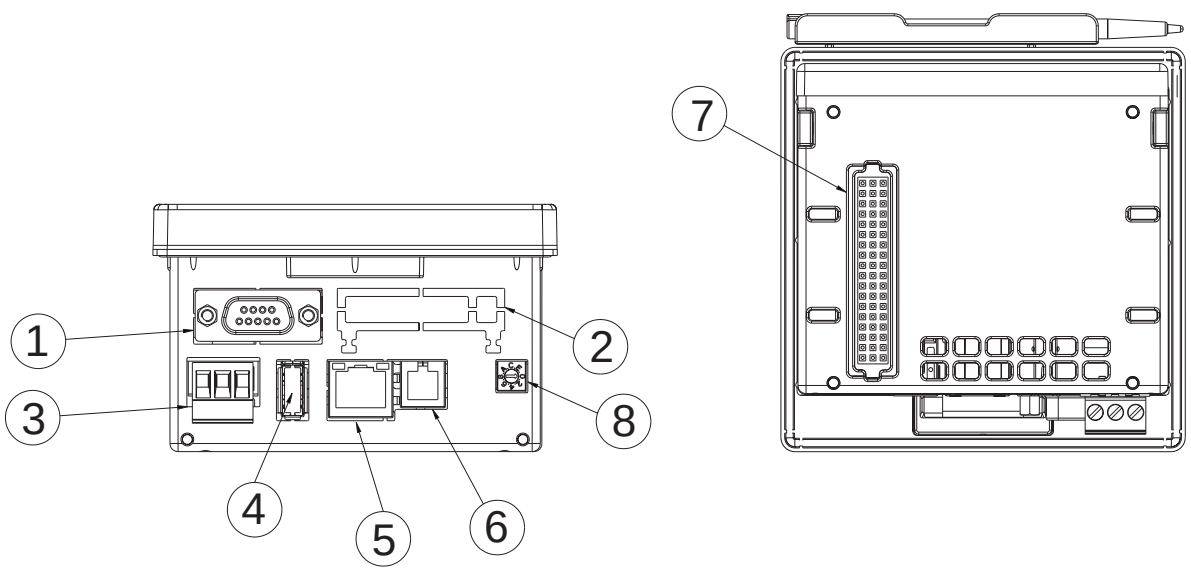
Name: BUS-G
Function: I/O expansion
Connector: 50 pins, comb type

DIMENSIONS AND CUT OUT



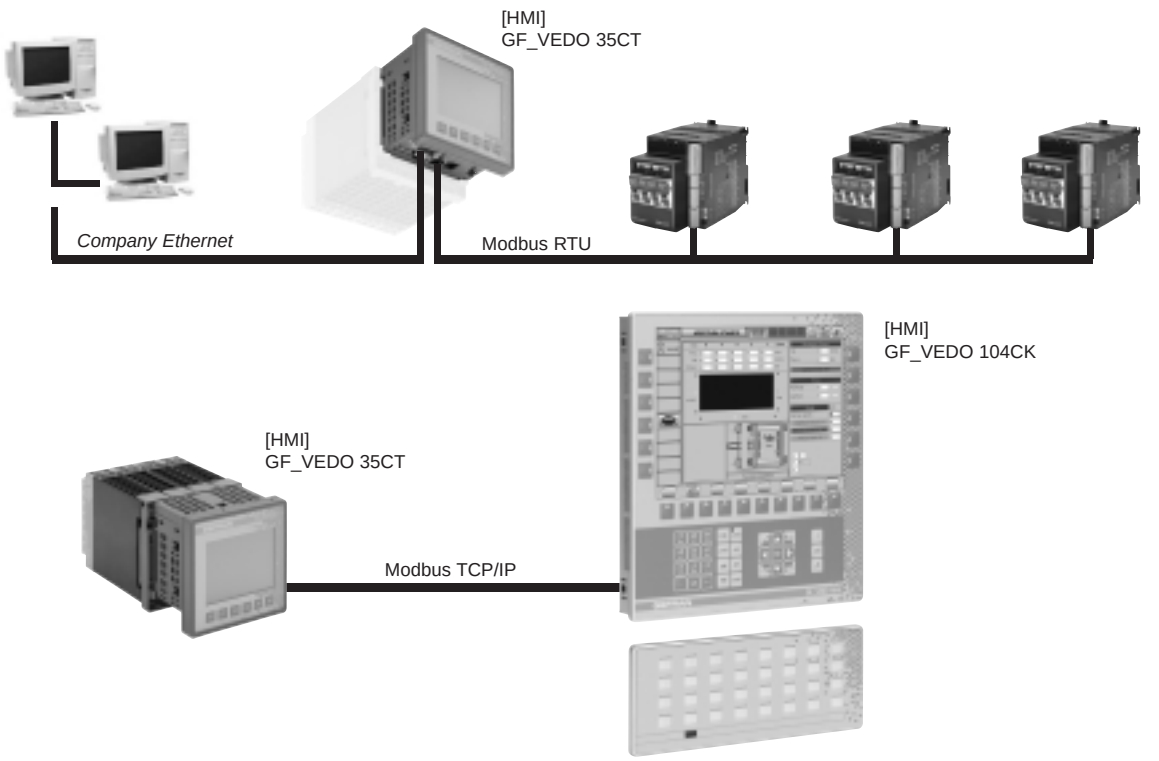


CONNECTIONS



Name	Denomination	Description
1	CAN	CAN layer 2
2	-	reserved for future use
3	24VDC	24Vdc, -15% +20%
4	USB	USB 2.0 HOST
5	ETH	Ethernet 10/100 base-T
6	RS485	Optoisolated RS485 serial
7	BUS-G	GILOGIK II I/O connection bus
8	-	Rotary-switch

CONNECTION EXAMPLES



ORDER CODE

GF_VEDO [ ] [ ] [ ] [ ] [ ] [ ]

MODEL	
3,5” color display + touch screen	35CT

OPERATING SYSTEMS		
Linux	LX0	
Windows CE	CE0	1)

EXPANSION 1	
None	00
RS485 serial	S1

	LEXAN	
	G	Gefran
1)	N	Neutral

EXPANSION 3	
0	None
U	USB

EXPANSION 2		
	00	None
	C1	CANopen
1)	D1	DeviceNet

1) 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

F041993 . . . . . L-BUS4 4-solt back-plane module supports a maximum of 4 GILOGIK II I/O modules

CE

In conformity to ECC 89/336/CEE and 73/23/CEE with reference to standards: **CEI-EN 61000-6-2** (immunity in indu-strial enviroment) **EN 50081-1** (emissions in residential environments) **EN 61010-1** (safety).

GEFRAN

GEFRAN spa
via Sebina, 74
25050 Provaglio d’Iseo (BS)
Tel. +39 030 9888.1 - fax +39 030 9839063
Internet: http://www.gefran.com