#### **POWER SUPPLY**

24 Vpc - 800 mA max

#### **CPU PROCESSOR**

CISC 16 bit 40MHz

#### PLC AND MOTION CONTROL PROGRAMMING

TR.I.P.O.S.GW compatible with Windows OS (EN61131-3 ST)

#### **MEMORY USER PROGRAM**

1 Mb flash and 512 Kb ram at high speed

#### **CANBUS INTERFACE**

1 electrically isolated, 1 Mbit/s, ISO11898 - Canopen (CAN1)

#### **DEVICENET INTERFACE**

1 electrically isolated, or Canopen (CAN2)

#### PROFIBUS-DP INTERFACE

1 electrically isolated

#### **SERIAL INTERFACES**

2 electrically isolated RS232 / RS485, full or half-duplex

8 electrically isolated, 5÷24 Vdc - 200 kHz

8 protected and electrically isolated, 24 Vdc - 0,5 A - 1 kHz

#### **DIP SWITCHES**

8 for user configuration

7 segment leds display indicating the operational status of the unit

#### CONNECTORS

: Combicon Phoenix Power supply

: 5 poles Mini-Combicon-Style CANopen Profibus-DP : 9 female poles Dsub; : 5 poles Mini-Combicon-Style DeviceNet

#### **WORKING TEMPERATURE**

0 ÷ 50 ° C

#### PROTECTION DEGREE

# Real-time programmable motion control device

for multi-axles systems and advanced solutions



# GWC

# **Gateway, PLC and Motion Controller**

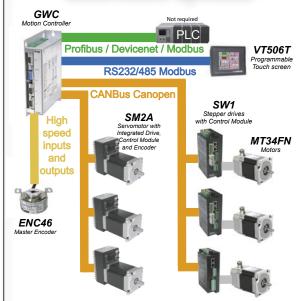
- Multiple Functioning Possibility
- Provided with Advanced Security Function:
  - √ fully tested for direct unit installation
  - √ integrated watch dog functionality
  - √ monitoring and handling of failures
- Main features Controller-Gateway:
  - √ easy programmable
  - √ local control of connected devices
  - √ real-time axles management
  - √ data exchange between field busses
  - √ high reliability and versatility



#### **ELETTRONICA PER AUTOMAZIONE INDUSTRIALE**

Via del Commercio, 2/4 -9/11 Loc. S. Grato - Z.I. 26900 - LODI (LO) - Italy

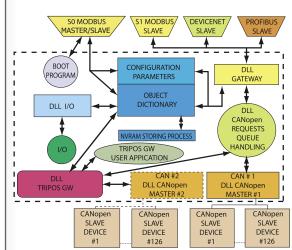
Tel. 0039 0371 412318 - Fax 0039 0371 412367 email infoever@everelettronica.it www.everelettronica.it



Thanks to the T.R.I.P.O.S.GW programming environment it's possible to personalize the machine cycle and to manage all drives and local resources, diminishing and simplifying the work load of the master PLC if present.

## Block Diagram

Functional schedule of the firmware and system resources



### TRIPOSOW



#### PLC Functions

- Instructions user program written in structured text;
- Logics / Boolean (and, or, not, neg, com, shl, shr, xor, ...);
- Comparison (if ... then ... else);
- Loop (while ... do ... end\_while, for ... do ... end\_for);
- Management subroutines (call, ret)
- Management interrupts (define\_int, int, int\_var, ret\_int)
- Management errors (on\_error, resume)
- System multitasking owner (up to 64 tasks)

#### **Gateway Functions**

- CANopen (read obj, write obj, read sdo, write sdo, send pdo);
- ProfiBus (write\_profi\_out, read\_profi\_in);
- DeviceNet (write\_devicenet\_out, read\_devicenet\_in);
- Modbus (master-slave RTU);

High-level structured language in compliance with the IEC1131-E (ST) standards allowing a wide access to the hardware resources by means of the GWC being open to extensions of the user functions with protection.



#### Motion Control Functions

- Refreshing Time of 1 ms;
- Management CAMs;
- Calculation variables with real/integer numbers;
- Trigonometry (cos, sin, log, tan, sqrt, ...);

#### Other Functions

- Saving data on nvram battery
- Real-time internal clock (date, hour, minutes, seconds);

TR.I.P.O.S.GW is available on 5 different licence levels depending on the need and the dimensions of the generated and compiled program:

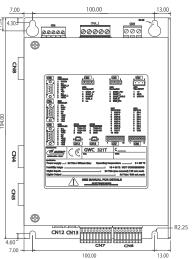
- The DEMO licence can be used for programs with a maximum dimension of 8 KB;
- The LIGHT licence can be used for programs with a maximum dimension of 32 KB;
- The BASIC licence can be used for programs with a maximum dimension of 64 KB;
- The ADVANCED licence can be used for programs with a maximum dimension of 128 KB;
- The FULL licence has no limits regarding the dimension of the generated program (256 KB is the limit determined by the hardware characteristics).

# 120.00

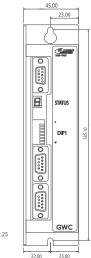


**WEIGHT** 480 g.

**DIMENSIONS** 194 x 120 x 45 mm



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## exploration of the CVD controllers.

	Ordering code			System Resources									
	Versions	Configuration	Connector kit	Power supply	Fieldbus			Serial	Digital	Digital	Dip		
					CAN1	CAN2	ProfiBus-DP	Interfaces	Inputs	Outputs	Switches		
	GWCB211	c1000	GWCB211C	24 Vdc (800mA max)	n. 1 CANopen	n. 1 DeviceNet oppure CANopen	n. 1 profibus-DP	n. 2 RS232/RS485	n. 8	n. 8	n. 8		
	GWCB211	c2000	GWCB211C	24 Vdc (800 mA max)	n. 1 CANopen	n. 2 CANopen	-	n. 2 RS232/RS485	n. 8	n. 8	n. 8		

Available Pre-loaded Applications and Optional Software Kits										
Configuration Application	Description pre-loaded application	Code Software kit	Description Software kit	Note						
c1000	No pre-loaded application. The unit is ready for T.R.I.P.O.S.GW. programming.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter							
c1000A	Horizontal Flow Pack type 300.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0300.						
c1000B	Vertical Flow Pack type 300.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0300.						
c1000C	Plates Positioning.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0325.						
c1000D	CAMs management.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0326.						
c2000E	Management winding machine.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0370.						
c1000F	Management axles synchronization.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0300.						
c1000G	Management printing registers for flexographic machines.	GWC_TRP232U-00	TR.I.P.O.S.GW DEMO licence + RS232 Cable + USB -> RS232 adapter	SW1 / SDM / SM2A drives required with firmware c0300.						