Marine Electronics

GEM elettronica

Electronic Chart Display & Information System

The top of class instrument aiding navigation management and safety

Type Approved WHEELMARK
Notified Body N°: 0575

Performances

- Serial line and LAN NMEA protocol
- Real-time PPI raw video overlay on the electronic map
- AML map presentation as per STANAG 7110 rule
- Compliance to NATO ATP-18 rule, with particular application to submarine navigation
- Decoding SUBNOTES as defined by NATO APP-11(C) rule
- Estimation of Dead Reckoning in navigation
- Interface to command, control and presentation system of the symbology as per NATO MIL-STD-2525B
- Track Control System management with autopilots

Applications

- Stand-alone or included into integrated bridge systems
- Whatever application requirement full watching and control over navigation plans
- W-ECDIS available through adoption by Additional Navigation Information

Box unit version

Desktop version

ECDIS ECD-700 and ECD-600 are both type approved by DNV according to the latest specifications of IMO, IHO and IEC. They have been adopted by the Italian Navy as well as other Navies in the world, professional vessel companies, etc.

ECD-600

Basic configuration including monitor, keyboard, computer unit with basic interfaces, installation kit, user manual.

options:
- mechanical enclosure for floor mounting;
- serial multiplexer;
- monitor enclosure for table-top mounting;
- keyboard enclosure for table-top mounting;
- UPS.

ECD-700

Full optional ECDIS including table-top unit, RUGB-70-26 unit with basic and optional interfaces, UPS, installation kit, user manual.

option:
- pedestal for console mounting.

ECD-710

Basic ECDIS version including table-top unit, basic interfaces, installation kit and user manual.

options for basic version:
- serial multiplexer;
- pedestal for console mounting;
- UPS.

Box unit version

Desktop version

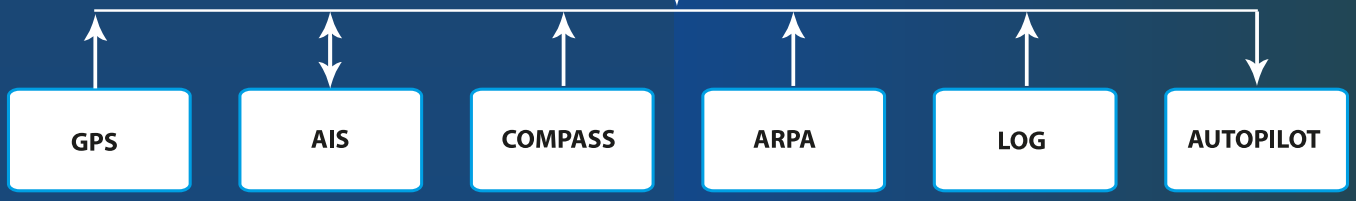
GENERAL SPECIFICATIONS	
DISPLAY TYPE	High resolution, 20.1" diagonal, colour LCD. The LCD is a Si/TFT active matrix.
CONTROL DESK	Keyboard group with dedicated keys and 2" trackball for rapid positioning of cursor.
PROCESSOR	Pentium IV - 2 GHz or superior
MAIN MEMORY	512 Mbytes RAM minimum
OPERATING SYSTEM	Windows 2000 with service pack3
GRAPHIC ACCELERATOR	AGP 32 Mbyte VRAM or better
HARD DISK	80 Gbytes or more
REMOVABLE DATA STORAGE DEVICES	CD ROM RW, DVD, Floppy Disk
ONBOARD MULTI I/O	Fast Ethernet 10/100 MB, PCI bus, USB ports, RS-232 or RS-422 serial ports
SELF DIAGNOSTICS	Comprehensive built-in test equipment (BITE) with fault detection and isolation
POWER REQUIREMENT	Single phase 220 or 115 Vac at 50/60Hz, 200 W max power consumption
ETHERNET	Standard IEEE 802 3U 10/100 Mbps CSMA/CD

ENVIRONMENTAL PERFORMANCES	
OPERATING TEMPERATURE	From 0C to +50C as per MIL-STD 2036 par. 5.1.2.17.1 for internal units
RELATIVE HUMIDITY	Up to 95% at +40C, non condensing
SALINITY	As per MIL-STD 2036 par. 5.1.2.12.2
VIBRATIONS	As per MIL-STD-167-1
DRIP PROOF	As per MIL-STD-108E
SHOCK (with shock absorbers)	0.5 sine, 30 g for 11 milliseconds
SAFETY	As per MIL-STD-2036 par. 4.10
EMI	As per MIL-STD-461C methods RE02, CE03, RS03, CS02 and CS06

OPTIONAL
SERIAL MULTIPLEXER
MONITOR ENCLOSURE FOR TABLE-TOP MOUNTING
KEYBOARD ENCLOSURE FOR TABLE-TOP MOUNTING
UPS

OPTIONAL
SERIAL MULTIPLEXER
PEDESTAL CONSOLE MOUNTING
INTERFACE UNIT FOR MILITARY OR SPECIAL APPLICATIONS
UPS

Basic interfaces (serial, NMEA compliant):



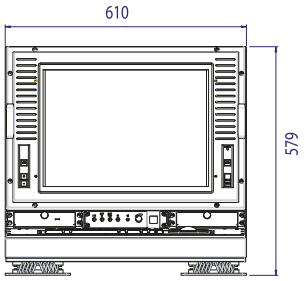
Optional interfaces for Military Application (with RUGB 70-26 unit):

Desktop version

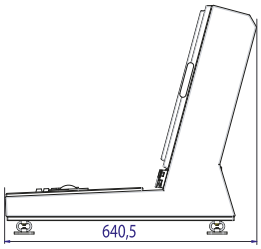
W. 40 Kg

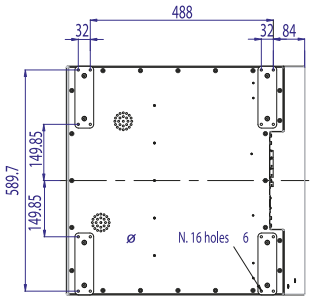
Basic unit

front view



side view

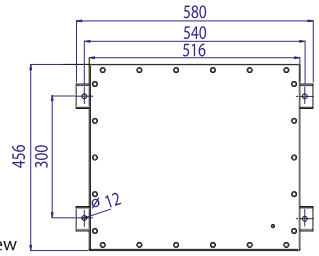




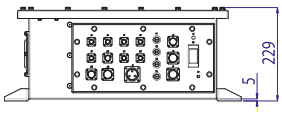
W. 15 Kg

Interface unit for military applications (optional)

front view



top view

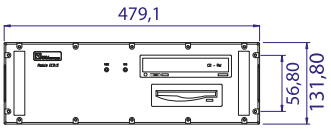


Box Unit version

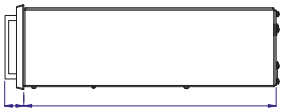
W. 13 Kg

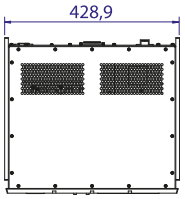
Processor unit chassis

front view



side view

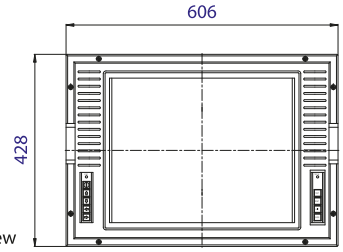




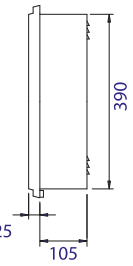
W. 15 Kg

Monitor

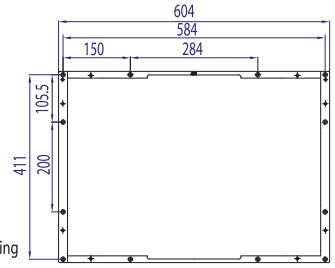
front view



side view

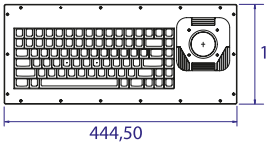


Frame provided for embedded mounting

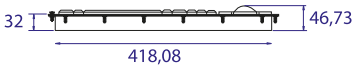


W. 2 Kg

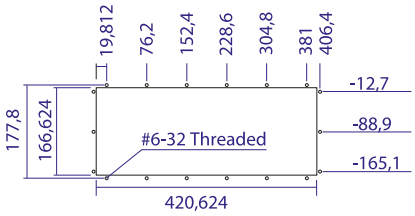
Keyboard



top view



side view



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RINA
CERTIFIED MANAGEMENT SYSTEM
ISO 9001