

Datasheet

Navigation Controller Unit (NCU)



Description

The Type 8020 Navigation Controller Unit (NCU) forms part of a Data Fusion Engine, a 'one-box' solution designed to meet the complete on-board requirements of any acoustic operation.

The NCU is the interface between the in-water acoustic instruments, sensors and the Navigation Computer which runs the acoustics positioning software. In addition to accurately time stamping incoming data from external devices such as GPS, the NCU also provides power and communications for ship-borne acoustic transceivers.

A range of hardware interface cards are available for interfacing Sonardyne transceivers and external sensors. By simply plugging these cards into the rear of the unit, the role of the Navigation Controller Unit can be transformed from supporting simple to complex acoustic operations.

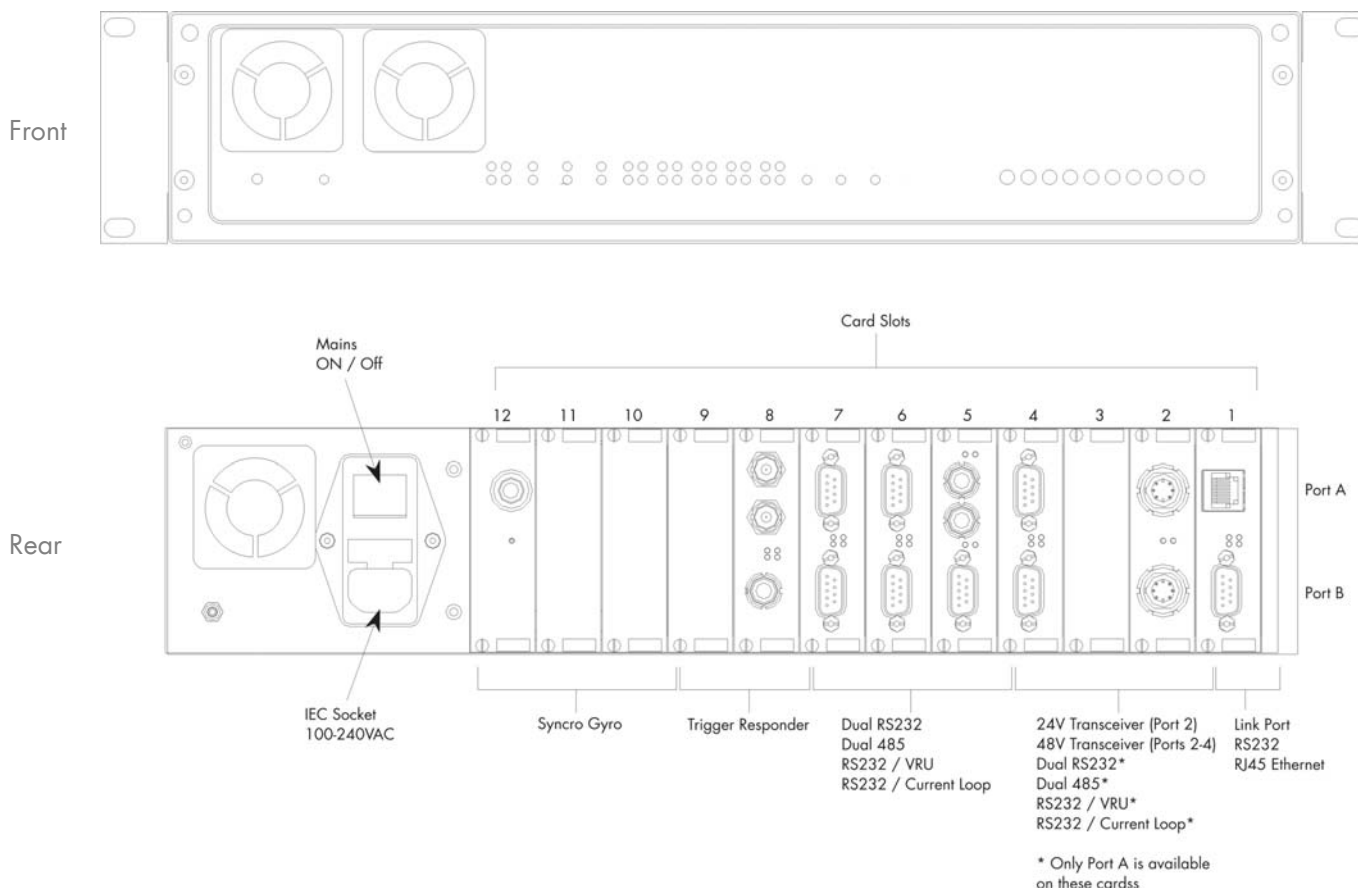
For certain DP and drilling operations, the NCU can be configured to offer dual and triple redundancy.

Key Features

- Interfaces all sensors and acoustic transceivers
- Accurate time stamping for next generation tracking methods
- Houses sensor specific interfaces
- Provides power and communications to acoustic transceivers
- Configurable for dual and triple redundancy

Specifications

Navigation Controller Unit (NCU)



Feature		Type 8020
Processor		Motorola Coldfire MCF5307 running at 70 MIPS
Memory		One single Date Rate(SDR) DIMM socket fitted with 32MB SDRAM
Motherboard		Proprietary Sonardyne Type 8020-046
Ports and Connectors		AC mains IEC power connector socket 12 x Interface card connectors
Power Supply		Auto sensing AC input voltage 100-240V, 50-60 Hz Max current : 0.5A @ 240V, 1A @110V Ave. operating current: 0.32A @ 240V
Environmental Specifications	Operating	0° to 35° C (32° to 95°F)
	Storage	-40° to 65° C (-40° to 149° F)
	Relative Humidity	20% - 80% (non-condensing)
	Shock	10G acceleration peak to peak 5-17Hz, 0.1" double amplitude displacement 17-640Hz, 1.5G acceleration peak to peak
Safety		Complies with EN61010-1
EMC		Complies with Immunity & Emission requirements of RN60945
Dimensions (LxWxH)		384mm (15.1") x 482mm (18.9") x 88mm (3.4")