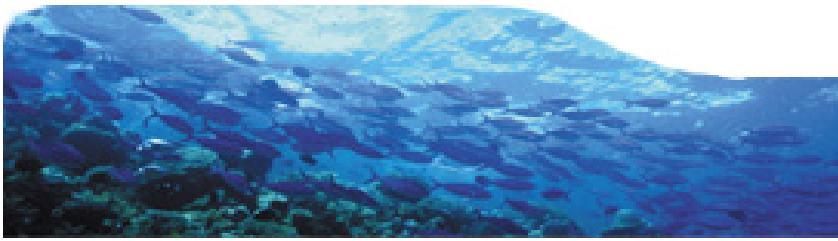


SYSTEM INTEGRATOR

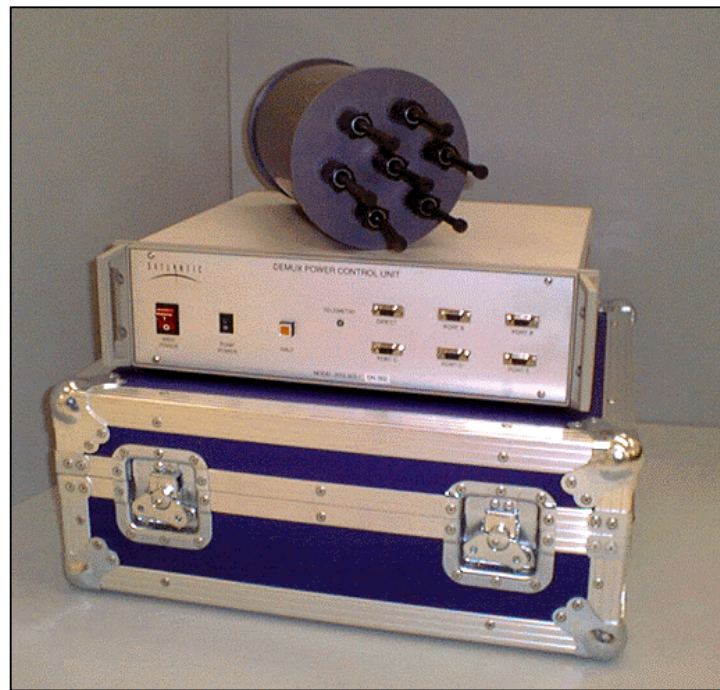


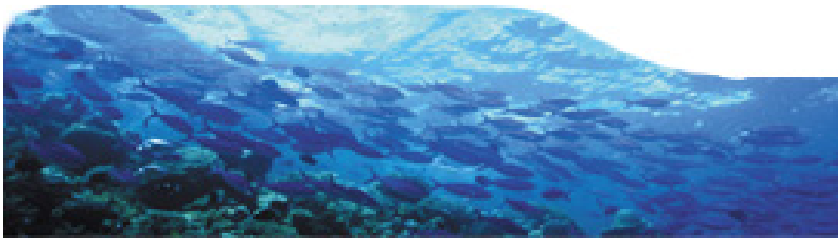
SATLANTIC MULTIPOINT SYSTEM INTEGRATOR

Understanding the need to integrate instruments from various manufacturers into a single profiling or mooring package, Satlantic developed the MultiPort System Integrator (SAT-MSI). The SAT-MSI system provides power and continuous or scheduled data acquisition and logging for any serial instrument output.

The system consists of a shipboard deck unit and an underwater serial concentrator unit with associated pigtailed. The in-water serial concentrator and power distribution unit is housed in a custom PVC pressure case (max depth 300m), which provides 12V power to the individual instruments and acquires data through its multiple serial ports according to specific data format configurations. The multiplexed (and time-stamped) data stream is retransmitted up the armored sea cable to the surface deck unit.

The deck unit includes power supplies, switching equipment and a PC-104 computer housed in a standard 19 inch rack-mount chassis. The deck unit supplies power to the underwater equipment via the sea cable and accepts the merged telemetry stream. The merged data is disseminated back to its original format and split out to 5 dedicated communication ports so that the data can be collected with each manufacturer's own data collection software. All data can also be backed up internally on a 512 MB Flash disk.





SATLANTIC MULTIPORT SYSTEM INTEGRATOR specifications

Deck Unit

Input power:	120 VAC
Output Power:	100 VDC
Controller:	PC-104 computer
Capacity:	512 MB Flash disk / 128 MB RAM
Communications:	5 optically isolated serial ports

Underwater Concentrator Unit

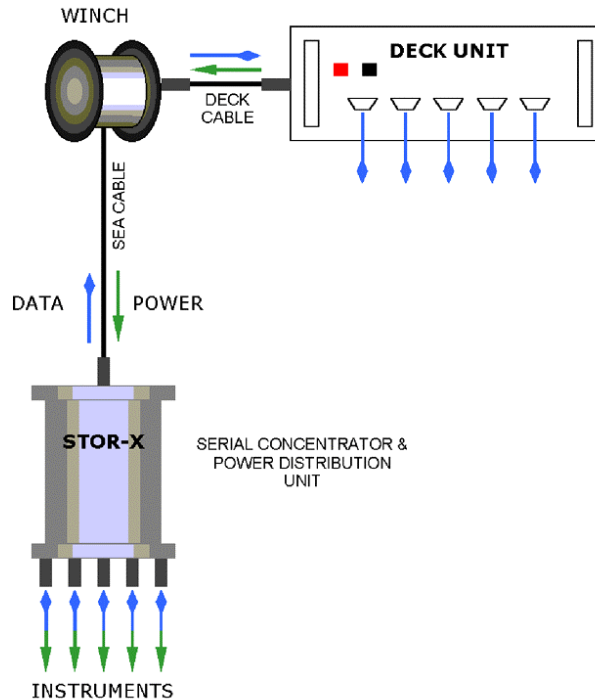
Input power:	100 VDC
Output Power:	12 VDC (5 configurable ports)
Controller:	Single board computer
Capacity:	32 MB Flash disk
Communications:	5 serial ports

Additional Features:

- Switch to control isolated pump power
- Halt switch to interrupt telemetry stream
- VGA monitor port for internal computer
- Keyboard port for internal computer
- 10/100 Base T network connector
- Built-in sea cable interface

Applications:

- Profiling systems
- Coastal observatories
- Moorings
- Undulating vehicles
- AUV's
- Environmental Monitoring



Specifications may change without notice.