E-Plex - next generation multiplexing technology
What is E-Plex?

The integration of all electronic systems into a common shell with the ability to distribute the information simultaneously to strategically located control and monitoring stations is becoming the standard rather than the exception.

E-Plex is the next-generation multiplexing technology for complex vehicles, marine and industrial equipment.

The E-Plex product line is comprised of intuitive user interfaces, power distribution modules, machine interface modules, sensors and software. These components electronically connect engines, generators, lighting, HVAC, audio/video and other equipment. The result is a seamless monitoring and control solution with dramatically increased system functionality.

Powered by a patented multiplexing technology that allows power and data to be transported over a simple, two-wire bus, E-Plex offers scalable, flexible solutions at competitive costs.

With distinct advantages in hardware, software and user interfaces, E-Plex enables simple and cost-effective system integration. E-Plex offers a total system solution that can be brought to market very quickly offering unmatched value in the multiplexing marketplace.

E-Plex - System Examples

E-Plex technology has been integrated into the Lagoon 560 since inception. Each of the luxury catamarans has the multiplexing technology onboard with two panels; one comprising a touch screen interface that integrates with modules throughout the vessel. The multiplexing modules control and monitor the AC circuits on board including the generator, AC Changeover, AC Distribution. The system also controls the DC power including selected lighting, fridges & pumps.

A long standing customer of E-Plex technology, Sovereign have now built over 38 horseboxes using the multiplexing technology to deliver high end technology to their discerning customers. Within the horseboxes the E-Plex system controls the majority of the domestic power requirements via the main control panel, and via the remote iPad control. The control panels have numerous screens, all branded as needed, and allow pre-programming and ongoing monitoring of all elements of the system.
E-Plex Modules
E-Plex products work together to produce highly efficient systems ranging from simple lighting systems to complex full electrical systems controlling elements from engines, to batteries to air conditioning.

Electronic control modules (Clock Modules)
Electronic Control modules are the heart and brain of the system. They power the Bus network enabling many modules to operate without a separate power supply. They also hold the main program and initiate and control the communication between all the modules. The 450 has a larger memory enabling it to hold programs for larger systems.

Switch & Display Interface Modules
E-Plex has a range of user interfaces for users. From simple but flexible rocker switch arrays, through multi touch region backlit touch switches through full colour touch screen interfaces with multiple pages. E-Plex also interfaces to market leading third party products such as EnOcean wireless light switches and the full range of Apple and Android touch screen devices.

Digital I/O & Motor Modules
E-Plex has a range of DC power distribution modules. Many of these have unique features making them ideal for switching tasks found in marine and specialty vehicle applications.

Engine & Equipment Modules
Display (and control) generator, engine, power electronics and other information via the CAN interface. Use information from other systems to control functions on board. Dedicated interfaces exist for Victron products allowing them to be seamlessly integrated into the overall system.

Tanks and HVAC Modules
Temperature and light level modules bring environmental controls into your system. A range of tank sensor options bring tank contents to your screen and allows your system to create alarms and incorporate pump control.

AC Power & Lighting Modules
E-Plex goes beyond DC! With a range of AC monitoring, control and distribution modules your AC circuits are as controllable and integrated as your DC systems.

DC Power & Relay Modules
Over and above the DC solid state (digital) modules we can offer a range of relay control modules, primary DC distribution boards with battery isolators and DC monitoring.

Analog Interface Modules
0-10 volt and 4-20mA inputs and outputs can all be accommodated within the system.

Screens
E-Plex allows completely bespoke user interface designs. This allows the designer total freedom to use corporate colours, logos and graphics. E-Plex works with iOS & Android compatible devices as well as E-Plex bespoke PC based touch screens.
Worldwide Dealer Network

We have a worldwide network of dealers with experience in servicing, designing and installing E-Plex systems.