

AIRPAX

Control Products Quick Product Guide





E-Plex is the next-generation multiplexing technology for complex vehicles and 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. Two wires.... Too easy

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 Benefits

Flexibility – E-Plex has an open architecture that easily integrates with all forms of equipment and other electronic protocols. With the E-Plex building blocks, designers have the flexibility to create a system with features, functionality and even graphics that are truly unique. E-Plex provides a blank slate that customers can use to create differentiated products consistent with their larger product line or brand strategies.

Scalability – E-Plex can perform as a simple, stand-alone tank monitoring system or as a fully integrated control system for a megayacht. E-Plex hardware and software has been specifically designed to allow scalability and growth. Many customers deploy E-Plex initially in an extremely simple configuration and then expand it over time either in the field or during model year changes. With E-Plex you can literally “grow as you go”.

Simplicity of Design & Installation – Via E-Logic, a new system can be designed, documented and brought to market very quickly. With just two wires, E-Plex provides all the benefits associated with multiplexing with less cost, complexity and weight.

Diagnostics, Error Detection & Troubleshooting – The E-Plex architecture is robust and does not require costly shielding or termination resistors. The E-Plex “Clock” module includes error detection protocols, troubleshooting features and redundant programming allowing for “plug & play” field replacement or upgrades.

E-Plex Controller/Clock



E-Plex control module (clock)

400ECM - E-Plex control module (clock)

- Master multi-function programmable touch screen
- System diagnostics and security lockout capabilities

E-Plex Modules



User Interfaces

- 350LCD - 10" color LCD touch-screen display, 640 x 480 color
 - Transflective or transmissive display
 - Supports multiple video formats
- 345LCD - 5.7" color LCD touch-screen display, 320 x 240 color
 - Transflective display
- 367TPD - 3" diagonal resistive touch panel display
 - User defined functions/buttons
 - 4-digit numerical display
- 376RSP - Rocker switch panel
 - Optical interrupters (no contacts)
 - Interchangeable cams allows end-user customization



Multi-purpose I/O Modules

- 325QMM - Quad multi module, 4 channels
 - Up to 5A per channel, up to 2 dimmers per module
 - Unused outputs can be used as inputs or vice versa
- 366HMM - Hexa multi module, 6 channels, up to 2 dimmers
 - 14A max. per channel, 6 override buttons
 - Unused outputs can be used as inputs or vice versa
- 369DRM - Dual reversing module
 - 4 controllable switch relays
 - 10A max., 24Vdc max.
- 422QMM - Quad multi-module with switching, 4 channels
 - Unused outputs can be used as inputs or vice versa
 - 5A max. per channel, 4 override buttons



DC power & relay modules

- 149CT30 - Single 30 amp relay module,
 - 30A AC/DC switching capacity
- 172QR - Quad relay module, 4 channel
 - Up to 10A per channel
 - 30A max. total, 130VAC max.
- 331BMI - Battery module inductive, 100/200 amp
 - Senses current and voltage
- 405DRP - Distribution relay panel
 - 16 controllable switch relays
 - UL508 and UL 873 approved relays
- 411BAM - Battery auctioneering module
 - Manage the voltage of two linked batteries
 - Can handle 100A continuous



AC power & lighting modules

- 336PFM - Power frequency module
 - Measures up to 200A, 220 VAC max.
 - Output modules can be scaled accordingly
- 389DMAC - AC distribution module
 - 8 controllable relays, 8 override switches
 - UL1077 recognized circuit breakers
- 406QDM - Quad dimmer switch, 4 channel, AC lighting dimmer
 - 15A max, 110-250VAC
- 407QHM - Quad high amp module, 4 channels
 - 25A max. on 2 paralleled channels
 - Up to 2 dimmers at 14A



Engine & Equipment modules

- 245EM - Engine monitor, oil, pressure, temperature, RPM
 - 3 active low digital inputs
 - 3 relay outputs
- 335RFE - RF receiver module
 - 5 programmable key fob buttons
 - 30 ft. range
- 360ACI - A/C controller interface
 - Controls multi-zone heating/cooling
- 357AVS - Audio / video switcher, with standard RCA jacks
 - 4 x 4 video switching, 4 x 4 audio switching
 - 3 switch inputs

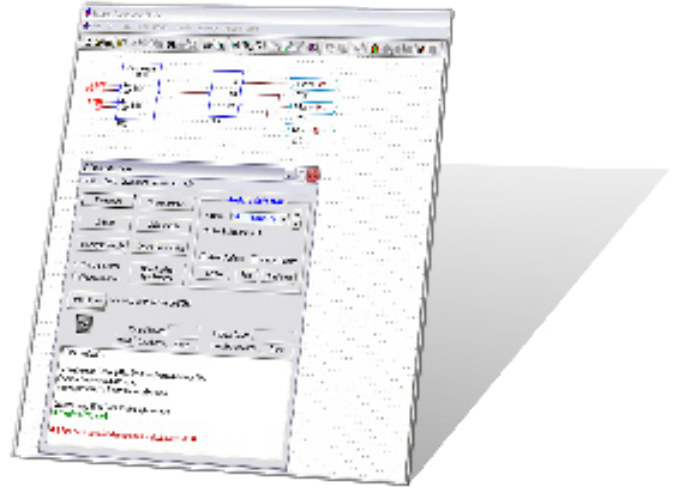


Sensor modules for tank & HVAC

- 303TM1 - Air temperature module
 - Range -40°C - 125°C
 - Weatherproof
- 318PFTG - Tank pressure sender, used in a variety of fluids
 - Accurate in irregular shaped tanks
 - Not affected by elevation
- 319RSM - Resistive sensor module, 0 - 300 ohms
 - interfaces with standard resistive senders

E-Logic

E-Logic is an intuitive design tool that allows rapid system development, prototyping and testing. It provides an E-Plex solution that can be configured and tested very quickly, reducing design cycles and time to market. E-Logic creates all of the programming that the modules require, documents the system, and will even generate a costed bill of materials once the design is completed.



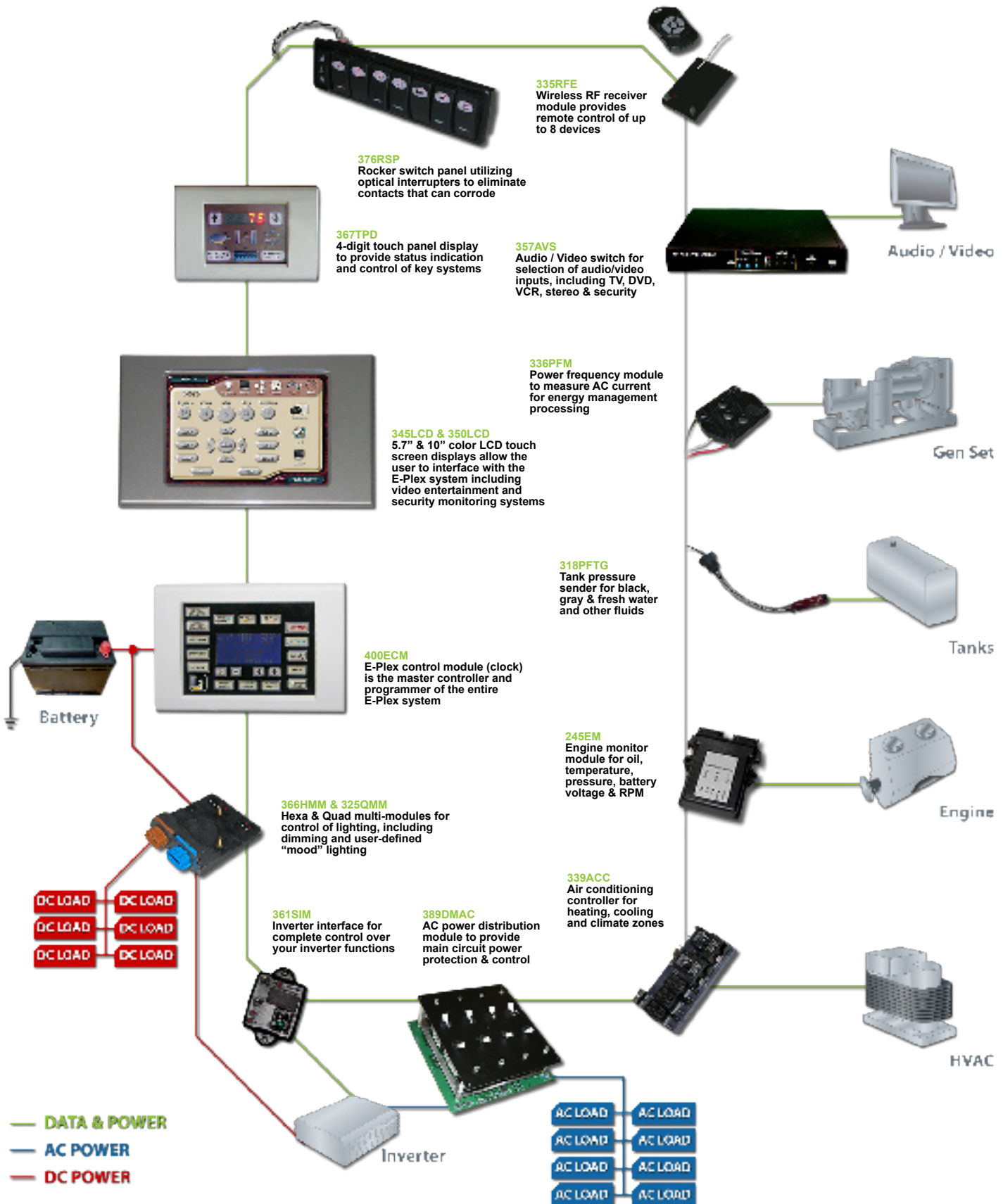
E-Plex User Interfaces & Displays

Intuitive yet sophisticated, E-Plex has a wide array of displays and interfaces that provide the end-users with improved monitoring and control. End-users find it effortless to use E-Plex.



E-Plex Overview

In a typical application, E-Plex can manage systems like AC & DC power distribution, control and monitor tank levels, generators, engines, air conditioning, hydraulics, motors, pumps, GPS, security and multimedia, or lighting.



E-Plex Multiplexed I/O Systems, Modules, E-Logic Software

Airpax Corporation is a global supplier of products and systems that sense, protect and control equipment and processes. Our products accurately detect temperature, speed, or position of a device; provide protection against overcurrent conditions; and provide for the distribution and control of electrical power; and integrate monitoring, control data logging and remote access capabilities into one user-friendly system.

In addition to the control products shown here, Airpax provides thermal circuit protectors and hydraulic-magnetic circuit protectors and breakers, quick-action fuses, protected battery disconnects, modular distribution systems, bimetal thermostats, temperature sensors speed sensors and position sensors. Visit us at www.airpax.net to learn what we can do for you.

Sensing

- Bimetal thermostats
- Temperature sensors
- Speed sensors
- Position sensors

Airpax Corporation
550 Highland Street
Frederick, Maryland 21701 USA
Tel: 301.663.5141
Fax: 301.698.0624
Email: infotsp@airpax.net

Protection

- Circuit protectors and breakers
- Quick-action fuses
- Power switches
- Protected battery disconnects
- Modular distribution systems

Airpax Corporation
807 Woods Road
Cambridge, Maryland 21613 USA
Tel: 410.228.4600 (Main)
Tel: 410.228.1500 (Sales)
Fax: 410.228.3456
Email: infoppp@airpax.net

Control

- E-Plex Multiplexed Systems
- E-Plex Modules
- E-Logic Software

Airpax Corporation
36 Graham Avenue
Oviedo, Florida 32765 USA
Tel: 800.909.3354 (Toll-free)
Tel: 407.359.8171 (Main)
Fax: 407.359.8170
Email: infoedd@airpax.net

AIRPAX
www.airpax.net

