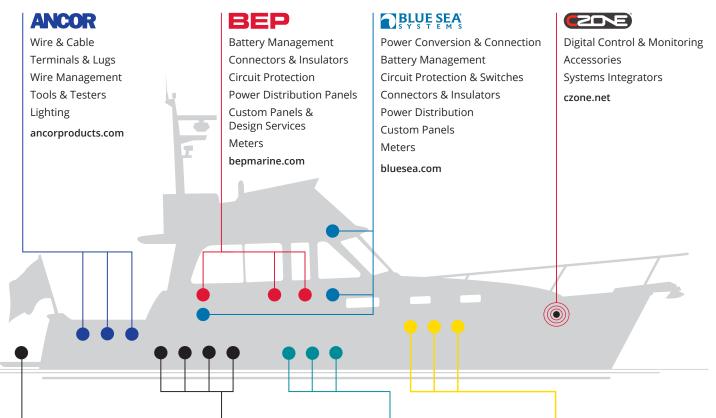




For decades Ancor, BEP, Blue Sea Systems, CZone, Lenco, Marinco, Mastervolt and ProMariner have worked independently to provide innovative electrical products. Now the eight companies are working together to offer comprehensive electrical solutions for marine and mobile applications.

Providing more than products. Providing Solutions.





Electric Trim Tabs
Auto Glide Automatic Boat Leveling
Tactile Switch Kits
Rocker Switch Kits
Electric Hatch Lifts
Actuators & Accessories
Trim Tab Retrofit Kits

lencomarine.com

ProMariner[™]

Waterproof Battery Chargers
Vented Battery Chargers
Inverters
Inverter / Chargers
Isolators
Accessories
promariner.com

MASTERVOLT

Battery Chargers
Inverters
Inverter / Chargers
Batteries
Digital Control & Monitoring
Transformers
Alternators & Regulators
mastervolt.us

MARINCO

Shore Power
DC Power Connections
Power Conversion
Battery Management
Wiper Systems
Horns
Lighting
Ventilation
marinco.com













What is CZone:

I Founder's Vision

For over 10 years industry leading digital control and monitoring technology from CZone has revolutionized the control and management of electrical systems in the recreational and light commercial vessel industry, and become established in recreational, specialty and emergency vehicle markets across the globe. CZone provides complete control and monitoring of all electrical circuits through dedicated touch screen interfaces, integrated marine navigation displays, wirelessly via iPad or key fob remote, or remotely via telematics integration.

Simplicity

CZone simplifies your boat or vehicle's onboard electrical system making it easier and more enjoyable.

Innovation

CZone offers system-wide functionality of your onboard systems onto a single screen or wireless device, while offering industry leading integration with suppliers from marine navigation displays, power storage and generation, and appliances like air-conditioning and more.

Reliability

CZone has proven durability, with over 10 years of installations in harsh marine environments through over 200 dedicated boat builders and technical installers.

I Global Service & Support

CZone has a broad network of technical dealers and distributors to support the installation and servicing of CZone systems across the globe. Regionally located logistics and technical competency centers ensure the global network is well supported.

2018–2019 **NEW** Products





Part # 80-911-0124-00

The sleek new Touch 5 adds a compact touch screen option to your CZone installation. While offering many of the same features as it's bigger brother the Touch 10, this new display module adds Wifi connectivity as well as the highest specification IPX7 waterproofing. With a super bright widescreen display and the latest capacitive touchscreen technology, this compact unit is perfect for a flybridge or exposed helm position. It also suits smaller vessels where space is at a premium, or on larger vessels as a secondary display in an owner's cabin or engine room.





28 Combination Output Interface (COI)

Part # 80-911-0119-00 COI with connectors Part # 80-911-0120-00 COI without connectors

Digital control and monitoring systems just got easier to install, with the new CZone Combination Output Interface (COI). This one box replaces up to five separate units, with industry-standard Deutsch connectors and IPx5 water resistance. With 12 low-current (10 amp) switched outputs, 4 high-current (25 amp) outputs, 8 analog inputs and 6 digital switch inputs, this one module provides sufficient options for most small to medium sized vessels.





Part # 80-911-0134-00

The COI Digital Switch Breakout (DSB) is the interface between the Combination Output Interface (COI) and up to six CZone digital switches (push button or Rocker). The digital switches include dimmable LED backlighting, systems on, fault codes and a plug and play harness simplifying installation.





Contact 6

Part # 80-911-0139-00

The Contact 6 is a digital control and monitoring module that can be networked with other CZone products or a stand alone. The Contact 6 has six independent channels that are positively or negatively switched and is ideal for smaller marine applications or recreational or specialty vehicles.



38 NMEA 2000 Power Isolator

Part # 80-911-0137-00

Used for isolating power between 2 independent NMEA 2000 networks. Reduce battery current draw by powering one bus off while the other remains operational, or can be used to assist with voltage drop issues on long networks.



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DIGITAL CONTROL & MONITORING

CZone® Displays



CZone displays are designed with both the manufacturer and end-user in mind. The easy-to-use display screens put the control of all components directly at your fingertips.

CZone® Wireless Interface



The CZone wireless interface allows your iPad® to interface with an onboard digital control and monitoring system for full monitoring and control of the electrical equipment via a clear and intuitive display.

CZone® Combination Output Interface (COI)



Digital control and monitoring systems just got easier to install with the new CZone Combination Output Interface (COI). This one box replaces up to five separate modules, with industry-standard Deutsch connectors and IPx5 water resistance.







DIGITAL CONTROL & MONITORING





Digital Control and Monitoring

CZone digital control and monitoring simplifies installation of electrical systems through the replacement of complicated, cumbersome traditional wiring. CZone is perfect for Marine and Mobile applications and replaces switch and fuse panels with networked digital interfaces providing ultimate control of onboard electrical systems.

With one touch, CZone's intelligent management simplifies operation by combining multiple circuits through Mode selection and offers effortless Monitoring oversight of key systems and components while retaining advanced Control of specific circuits and functions.

CZone can take care of all the little things, leaving more time for the user to focus on what they value. Whether you are preparing the boat for the evening's entertaining, hitting the open road away from stable power, or focusing on getting the job done, let CZone do the thinking.





Marine, Recreational, Specialty or Emergency Vehicle

CZone delivers purpose built functionality for the Marine, Recreational Vehicle, and Specialty or Emergency Vehicle Markets.

Marine

CZone has an extensive 10 year history of providing innovative digital control and monitoring to some of the leading premium boat builders across the globe. Our partners understand the benefits of CZone for their systems with digital control and monitoring swiftly becoming a standard for any sophisticated vessel.



Recreational Vehicle

CZone offers the industry leading solution for complete recreational vehicle switching for your smart vehicle. Larger recreational vehicles host complex onboard electrical systems to provide the user with functionality from broad integration for control and monitoring of multiple vehicle systems, to automation of key functions such as power management and storage, and to provide the user with a simple clean and friendly interface.



Specialty & Emergency Vehicle

Vehicle digital control and monitoring automation offers operating efficiency and cost savings. Speed up deployment times with mode selection. Ensure uptime through complete power integration management. Maintain simple, straightforward operation for personnel with easier training and operating instructions, or improve maintenance and configuration standardization easily across a fleet.



Modes

Modes offer a predefined system state at a single touch. Modes will turn on or off specified circuits based on the user's preference and the mode of operation required.

Modes can introduce logic to handle functions based specifically for that mode of operation, whether it be integrated components like generator auto-start, or varied lighting configurations. If it needs power, Modes can take care of it in a single function.



Marine Modes

Boat Manufacturers can offer a range of predefined Modes for the applications and systems built into their vessels. Custom modes can however be programmed to achieve any desired state for the system. Larger vessel systems can be extensive and complex, making it a challenge for many users who simply want to focus on enjoying their time on the water.

Modes can ensure critical systems, from bilge pumps to power supply systems, remain operational in the background no matter what the user is doing onboard.

Recreational Vehicle Modes

Recreational Vehicle Manufacturers can offer a range of predefined Modes for the simple activation of the vehicle. Custom modes can however be programmed to achieve any desired state for the system.

Control each system in the circuit in a single press from a CZone Touch Screen Interface, Digital Switch, or Wirelessly via Key fob, connected iPad or remotely through Telematics.

Any system or circuit can be controlled independently while still in a defined Mode.



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Complete Control

CZone offers leading system control of onboard systems, from Modes selection that transforms the entire system at a single touch, wirelessly via iPad or Key fob, or remotely via satellite or data networks. Full direct control is accessible using intuitive touch screen interfaces or through integrated marine Chartplotter & Fishfinder displays, or programmable digital switches for individual or group functions.

Directly Control your system through programmed digital switches or get complete access to vessel systems via a CZone touch screen interface.

Digital switches can be programmed to activate any range of desired functions. From entire system Mode Selections, individual circuits, time delayed circuits or multiple circuits controlled in sequence.

Access every circuit and maintain complete control, from ON/ OFF to Dimming Level on certain circuits. Controllable circuits are grouped and filtered for easy access, from current type to function or system type. Users can override any Mode state for that circuit directly if required.



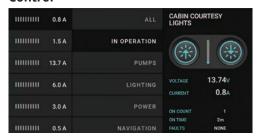
Enjoy **Wireless Control** of your boat or vehicles system using iPad tablet or key fob remote control. Wireless capability is built-in to the CZone Touch 5 (see page 19), or available using the Wireless Interface Module (see page 23). Telematics Monitoring and Control functionality is dependant on the provider (see page 21).

Monitor

START BATTERY	PORT STA		13.78 V
	لحما	DC MONITORING	13.75 V
		AC MONITORING	13.85 V
13.78v	VOLTAGE	TANKS	13.81 V
MIN 13.70V	VOLTAGE MIN		
MAX 13.89V	VOLTAGE MAX		

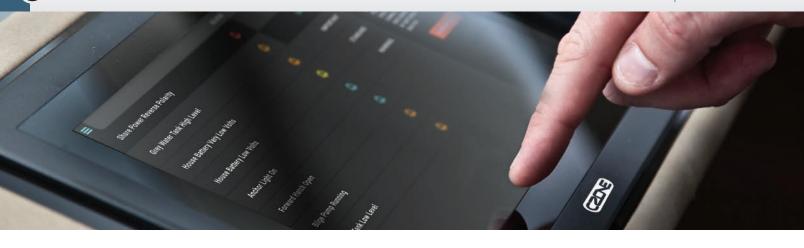
Monitor House Battery State of Charge, Voltage and Current usage. See how long your batteries will last without the need to supply the system with charge.

Control



Control lighting circuits individually, groups of circuits or complete Mode selection. Set the mood or environment to match what you're doing.





Monitoring & System Alarms

CZone digital control and monitoring offers peace of mind by consolidating system information and presenting alarms when things aren't right. Monitor tank level senders, gas or temperature sensors, low power source voltage or reversed polarity. CZone's advanced monitoring ability means no irregularity in the system goes by without you knowing about it. Keep alerted to major system events with onboard alarm notifications.



Pop-up Alarms

Alerts will pop-up with key details about the alarm no matter where in the CZone menu your are. Alerts can be Acknowledged to silence them, while a full list of active alarms will remain in the Alarms History panel. Critical alarms, even if acknowledged, will reappear after 10 minutes and remain persistent until the issue has been resolved.

Alarm Types & Severity



Critical alarms are where immediate action is necessary to avoid damage and/or failure of a system. With a pop-up dialogue and audible tone it's hard to miss any critical alert. The alarm will return in 10 minutes after acknowledgment, until the fault is remedied.



Important alarms identify something that needs investigation before trying to operate it again. This alarm will give you an audible tone and pop-up dialogue on screen. Once acknowledged it'll remain active in the CZone's Active Alarms page until the fault is resolved.



Standard level alarms identify an issue that may or may soon cause an issue for operation. Once acknowledged the pop-up dialogue will disappear.



Warning: Low level warnings indicate a minor issue or advisory about the system. This may or may not impact the system with any significance. Once acknowledged the pop-up dialogue will disappear.

Load Shedding & Trigger Functions



Trigger functions are where CZone takes an action when a certain set of criteria is met. Trigger functions are highly configurable and can be set to handle simple or complex actions.



Load Shedding is used when power stores become low to attempt to extend the endurance of the system before recharge or complete shutdown. CZone will turn off non-essential circuits to reduce the load draw and increase how long the system will have sufficient power.

LIGHTING	VOLTAGE	13.74v 0.8 _A
POWER	ON COUNT	1
NAVIGATION	ON TIME FAULTS	2m NONE

Cycle Counts & Run Times

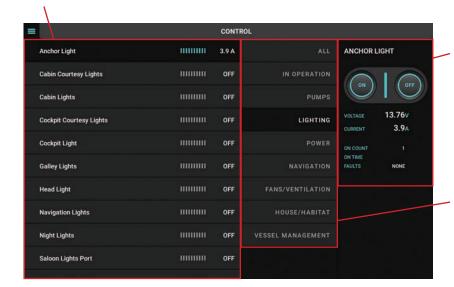
Monitor the number of times a circuit has been triggered and the circuit run time. Understand if a bilge pump is running too frequently and if there may be a potential water leak in the vessel which needs to be investigated.

Intuitive Navigation

Control & Monitoring Pages

List Panel

The Control & Monitoring pages list each circuit available in that category. Each circuit indicates key detail-like status on-or-off or level of dim. Current draw amperage for each active circuit is shown in real-time.



Control & Detailed Monitoring Panel

The control and data pane shows key controls and details relating to that circuit. Name, status and other detailed information like circuit run-time or the numbers of times it has run can all be seen.

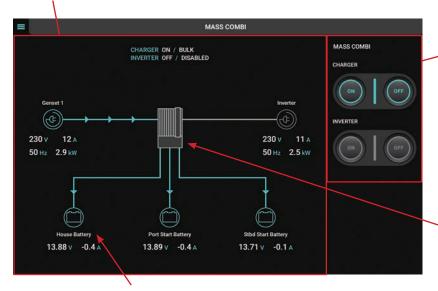
Active Filter Panel

The filter pane allows the user to control which types of circuits are shown in the controls list pane, from active circuits to lighting or appliance only circuits.

AC Mains & Inverter/Charger Pages

System Layout

The inverter-charger page illustrates the flow and connection of AC to DC, and DC to AC power sources in the system. Swipe from right to left to view multiple inverter-chargers on the system.



Control Panel

device installed.

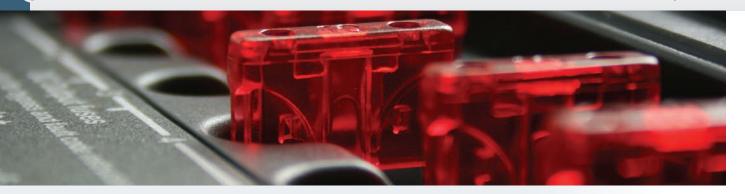
MASTERVOLTMastervolt Integration

AC Mains & Inverter/Charger system layouts only available with Mastervolt integrated product.

The control pane offers on-off control of charger and inverter functions based on the

Icons

Source icons indicate if power is available, while the circuit diagram clearly shows the direction of flow between components.

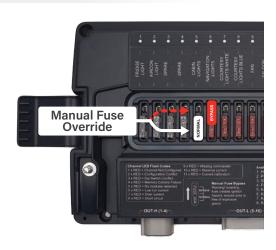


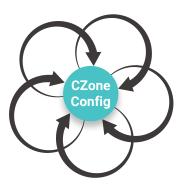
Reliability

All CZone modules are designed for harsh marine environments. It operates on a NMEA 2000 network making CZone incredibly durable and reliable. Integrated circuit over-limit protection prolongs the life of your electrical system. Manual fuse overrides are incorporated into the CZone modules, so if there is a power failure, critical systems continue to function.

Manual Fuse Override

CZone offers built-in redundancy from the digital control and monitoring of system circuits. By changing the position of the fitted blade fuse on any of the CZone Output Interface (OI), Motor Output Interface (MOI) or Combination Output Interface (COI) Modules, the individual circuit can be taken in or out of the CZone system.





Distributed Configuration with Plug & Play Module Replacement

CZone's unique design means the system's configuration and settings are not stored in any single networked device. The Config is distributed to each CZone module meaning that any single or group of modules that becomes damaged or develops a fault will not affect the rest of the system.

Module replacement is simple. After first correctly labelling, placing the required fuses and setting the required dip-switch to match the old module, the connecting of the new CZone module will automatically claim the existing Config from the system and you're up and running.

Multiple Levels of Circuit Protection

CZone has been engineered to be physically durable and offers leading protection to the various systems and circuits within the vessel or vehicles systems. Initial protection utilises system alarms and trigger functions to offer early detection and resolution to troubles onboard. Quick-blow fusing uses CZone's operating system to detect fault level current or voltage changes spikes and will automatically isolate the circuit digitally. The final layer of defence uses traditional mechanical fuses to physically trigger and isolate a circuit to protect the system components from damage.







Industry Standard NMEA 2000

CZone is NMEA 2000 certified and uses standard micro cables and connectors. This also allows a single network backbone to be installed for multiple systems (CZone and other NMEA 2000 devices). Additionally, CZone can share certain monitoring functions with other NMEA 2000 compliant screens. The CZone MasterBus Bridge Interface expands the system integration to a whole new level. No other company can bring digital control and monitoring, power electronics and marine navigation systems together into one interactive, seamless system.

Installation

Builders recognize an immediate benefit with reductions in cable usage, harness weights and installation times. CZone integrates many stand-alone components into one intuitive system. Wiring is dramatically simplified as CZone is designed to remove complex switching clusters and wiring runs. Modules can easily be added into the system to best suit the OEM and end-users' needs.



MASTERVOLT

Power System Integration

CZone's Integration with Mastervolt offers a market leading solution for complete power management from supply, storage and conversion.

Manage

Mastervolt offers the highest quality components which have the ability to communicate in a comprehensive, network system. A range of monitors and the ability to integrate with name brand electronics, provides information about the electrical system when, where and how the customer desires.





Generate

Whether you are off on a worldwide journey or a few days on the road, being independent from grid connected power requires alternative energy sources. Ultimately, an energy source that generates its own power will be required. Mastervolt offers a wide range of power solutions that generate energy from (solar) charge regulators to high-output alternators.



Store

Mastervolt provides autonomous power for vehicles, boats, houses and furniture that may not be connected to the grid for long periods of time. Powerful, robustly constructed batteries are the key.

Mastervolt offers several battery technologies, all designed for optimal performance, reliability and longevity in harsh environments.



Convert

Mastervolt's power conversion products offer cutting-edge technology, quality and reliability. Whether using a microwave, LCD TV, coffee maker, cell phone charger, entertainment system or more, Mastervolt's electrical products power the comforts of home.

Partnerships

Volvo Partnership

Volvo Ocean Race competitors compete in some of the harshest environments our oceans have to offer. These grueling conditions test not only the crew, but the gear they use to keep them alive and get them to the finish line. CZone components are designed to meet these challenges with proven reliability for generations of competitors.

Through a partnership with the Volvo Ocean Yacht Race since 2014, CZone has illustrated a capability to control and monitor complex navigation, power management, communication and vessel systems in the testing marine environment.





"I've spent a lot of time working with Mastervolt and CZone. I'm really impressed how solid it is, how stable it is. We never have any issues, any breakdowns, any failures, it just works. It doesnt matter how we treat it, we treat it quite rough... it does the job."

Nicolai Sehested, boat captain of Team AkzoNobel, Volvo Ocean Race

The New Standard for Marine Electrical Systems

Boat builders around the world are embracing the benefits and advantages of CZone: simplicity, innovation and reliability. CZone's simple operation adds value to their customers' experience, while simple design configuration tools ensure their staff can become their own CZone experts. Innovation through the distributed intelligence of digital wiring providing future flexibility in configuration changes and immediate weight savings to installation when compared to traditional wiring. With long standing partnerships with key boat builders across the globe spanning more than 10 years, CZone digital control and monitoring systems have proven reliability that meets the stringent standards of reputable boat builders.





"CZone provides Riviera owners with reliable onboard power systems. The integrated system gives our owners more functionality with fewer components, straight forward and practical design makes installation simple. We have a partner that understands our requirements and provides Riviera the quality and reliability our owners demand."

Greig Payne, Electrical Manager. Riviera Yachts, Australia

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Application Engineering & System Integrators

Design & Build

CZone system design and build is straight forward and supported from conception to commissioning. Using either our regional Application Engineers or comprehensive System Integrators business, we can ensure customers receive necessary support right the way through the journey to completion.

Application Engineers

Application Engineers are our team of expert staff who support our customers through the system design, configuration and commissioning of their CZone systems. Application Engineers ensure customers are trained and supported in the ongoing management of their CZone Systems.



System Integrators

System Integrators is a comprehensive offering that extends beyond the initial design and commissioning of the CZone system. System Integrators is an end-to-end service. Starting with the initial System Design, through Production and Installation of wiring harnesses, breaker and switchboard panels, and then the final Configuration & Commissioning. System Integrators will remain onhand to offer after sales Support into the future.

System Design ⇒ Production ⇒ Configuration & Commissioning ⇒ Support

Global Technical Service & Support



Tier 1 - Global Certified Dealer & Distributor Network

CZone has a broad network of Technical Dealers and Distributors to support the installation and servicing of CZone systems across the globe.



Tier 2 - Regional Support Teams

Regional Application Engineering & Technical Support Teams offer comprehensive guidance and backup to our global sales & service network.



Tier 3 - Engineering & Product Development

Engineering & Product Development is the last line of defense and supports our regional Tier 2 Technical Service Teams.

CZone.net/distributor-locator

technical@czone.net

Americas - Wisconsin, USA technical@marinco.com Call +1 262 293 0600 or +1 800 307 6702

Europe, Middle East and Africa Amsterdam, Netherlands
ts@mastervolt.com
Call +31 20 342 2100

Asia Pacific - New Zealand technical.APAC@powerprodllc.com Call +64 9 415 7261



CZone® Displays

CZone displays are designed with both the manufacturer and end-user in mind. The easy-to-use display screens put the control of all components directly at your fingertips. Multiple display interfaces can be used in the same system. The scroll and click interface is simple to use in the roughest of seas or bumpiest of roads.

CZone displays are the interface between the CZone network and the user. They offer full control of circuits as well as the ability to view important onboard system information, such as tank levels and power levels (for both AC and DC supplies).

Audible and visual alarms with systems diagnostics are also provided. The displays are extremely intuitive to use with simple controls and a menu structure that is easy to follow. The 'modes of operation' feature allows the control of multiple circuits with the push of a button.



Touch 10

Premium touch interface with glass dash styling and low profile mounting

The generously sized Touch 10 provides excellent viewability and is the premium gateway into your integrated CZone system. Sleek and attractive, this display will complement the interior of any high-end application. But it's not all about looks - with the Touch 10, your CZone system is in good hands.

Capacitive high-bright touch display offers impressive daylight visibility with crisp graphic detail and elegant touch sensitivity. Full control offers an impressive wrap-sheet. Use Mode Selection to pick the right system configuration for you. Control and Monitor key system functions and status, from tank level to current draw.

80-911-0100-00 Touch 10

80-911-0102-00 Touch 10 display and retrofit plate kit* **80-911-0101-00** Touch 10 retrofit plate kit only*
*Required for retrofitting old CZone 10" Touch Screen

Screen	10.1" LED-backlit Projected Capacitive Touch display with IPS Technology
Aspect Ratio	Widescreen 16:10
Resolution	1280 x 800 pixels
Protection	IP66
Dimensions (WxHxD)	7.72" x 10.83" x 1.61" (196 x 275 x 41 mm)
Weight	4.0 lb / 1.8 kg
Brightness (cd/m2)	500 cd/m2
Input voltage	8-32V
Power consumption	1A @12V, 500mA@24V
Interfaces	NMEA 2000, USB2.0, Ethernet



Side Profile

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Touch 5

Built-in Wifi allows direct-connection of an iPad for wireless Control and Monitoring of the system

The compact Touch 5 is small but mighty, offering a powerful touch screen interface for CZone's powerful digital control and monitoring. With a compact sleek design, the Touch 5 complements nearly any vessel dash or vehicle space.

Built-in WiFi connectivity brings your CZone system into the wireless dimension, allowing full control of system functions—from Mode Selection, System Monitoring and individual Circuit Control—straight to your fingertips, no matter where onboard you are.

80-911-0124-00 Touch 5

80-911-0135-00 Touch 5 retrofit plate 12V kit* **80-911-0136-00** Touch 5 retrofit plate 24V kit**

*Required for retrofitting CZone 3.5" Display Interface.

^{**}Required for retrofitting CZone 3.5" Display Interface. Supplied with 3A 24/12V Converter.

Screen	5" LED-backlit Projected Capacitive Widescreen Touch
Resolution	800 x 480 pixels
Protection	IPX7
Dimensions (WxHxD)	5.98" x 4.72" x 2.28" (152 x 120 x 57.9 mm)
Brightness (cd/m2)	1200 cd/m2
Input voltage	12VDC
Power consumption	900mA @ 13.5v
Interfaces	NMEA 2000, Micro SD



- · Easy to use touch interface
- · Glass dash styling
- Super bright widescreen display
- · Low profile flush mounting
- Reduced system cost and complexity, combines display and Wireless Interface functionality into one unit
- IPX7 water ingress protection
- Built-in WiFi connectivity
- Micro SD card slot
- NMEA 2000 compatible



Marine Electronics Integration

CZone has partnered with leading electronics manufacturers to deliver full function Mode selection and configuration, individual Circuit control and system Monitoring centrally from your dash. CZone Digital Control and Monitoring is available with industry leading manufacturers Simrad, Lowrance, B&G, Garmin and Furuno's multi-function Chartplotter/Fishfinder displays and black-box glass-bridge displays, with engine manufacturers Mercury and Volvo's offered compatibility.

Mode select for Night Navigation or At-Anchor, Control individual bilge or tuna-tube water pumps, Monitor fuel tank levels and battery capacity, and do it right from the in-dash display along side onboard Radar, Sonar and GPS charting.

Secondary networked displays offer extended Mode, circuit control and monitoring from dash to fly-bridge, saloon or sleeping quarters to ensure everything can remain in arms reach.





LOWRANCE















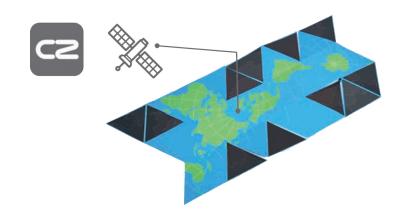


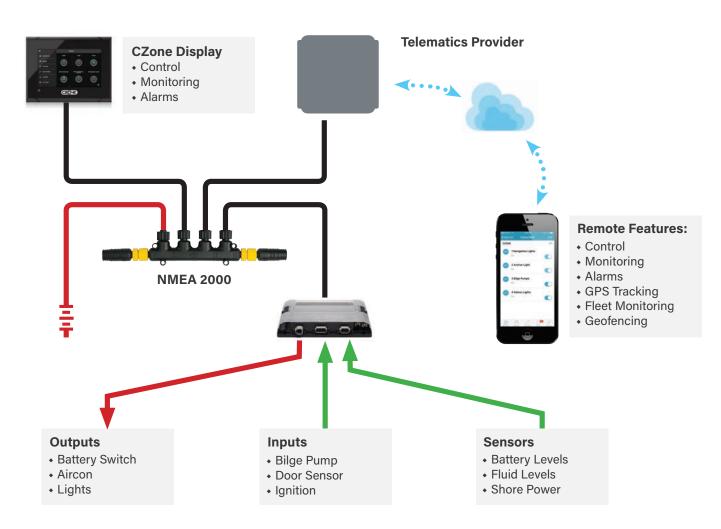


Telematics

Control and monitor your CZone system remotely using one of our 3rd party telematics partners. Keep control of your system from the boat or vehicle anywhere you can get data coverage.

Bilge pump alerts, circuit activation, position movements or any other function you may need while away from your system.





Integrated Telematics Providers:



more at sentinelmarine.net

CZone® Wireless

Enjoy wireless control of your boat or vehicles system using iPad tablet or key fob remote control.

Wireless Key Fob

Key-less control for your car is now just a way of life. From central locking and boot opener, to engine start and stop.

Industry leading boat and recreational vehicle manufacturers understand the benefits of keyless functionality to ensure their products are innovative and packed features, from controlling start-up and shutdown of house batteries, to illuminating deck lighting for safe easy access in low light conditions.

Control up to 4 different functions or utilise a predefined Mode of operation from each CZone key fob remote.

Requires analogue input from Combination Output Interface (COI) (page 28) or Signal Interface (SI) (page 31).



iPad Wireless

Control any function in your system from the convenience of your iPad tablet in the comfort of the vessel's saloon lounger or RV's fold-out deck chair.

Control lighting circuits individually, groups of circuits or complete Mode selection. Set the mood or environment to match what you're doing.

Monitor House Battery State of Charge, Voltage and Current usage. See how much endurance you have until you need to supply the system with charge.

Requires Wireless Interface (WI) (following page) or Touch 5 with built-in WiFi (page 19).



CZone® Wireless Interface

The Wireless Interface (WI) is a digital control and monitoring interface module designed to connect your tablet to the CZone network over Wifi. Handling up to 3 devices the WI can offer connectivity of its own internal Access Point or can interface with other Wifi network systems on your vessel.

Use the built in Ethernet port for a better connection to an existing network.

80-911-0090-00 Wireless Interface

80-911-0095-00 WI MasterBus connector (required for MasterBus connection)



Features:

- · User-friendly homepage to monitor and control onboard circuits
- Integrated control and monitoring of power products including battery chargers and inverters
- · Monitor AC/DC power and batteries
- · Monitor tank levels
- · Receive visible alarms
- · Connect a maximum of three devices simultaneously
- · Ability to personalize homepage to display favorite circuits, modes & monitoring
- · Customize your layout
- Connects to CZone or MasterBus networks for control and monitoring of systems

Hardware:

• The Wireless Interface acts as the hub between MasterBus/CZone networks and local WiFi devices

NOTE: WI MasterBus connector required for MasterBus connection

- · Ethernet connection to connect to other LANs
- USB connection for configuration updates
- Tested to FCC, CE, EMC
- · Power cable and aerial included

MasterBus powering	no
Dimensions, hxwxd	4.1" x 7.5" x 2.4" / 105 x 190 x 60 mm
Weight	1.5 lb / 0.685 kg
Protection degree	IP54
Delivered with	power cable, WiFi antenna, USB extension cable, user's manual

Touch 5 with built-in Wireless

Achieve the Wifi network to network, or network to device connectivity as the Wireless Interface directly from the compact Touch 5 display.

See page 19 for product details.





CZone® Design & Configuration Made Easy

CZone's leading configuration process is relatively easy and all technical customers are offered training so they can design and program CZone systems quickly. Generally generating a configuration and programming a system is both time consuming and complex. Most digital control and monitoring providers required highly trained technicians to programme and commission installations, making them time consuming, inflexible and far more costly. Easy configuration with CZone means technical customers can provide this service themselves ensuring the system is setup quickly and the end customer receives industry leading service.



CZone Configuration Tool

The CZone Configuration Tool software is available to technical CZone customers from the CZone Portal at downloads.czone.net



The CZone Configuration Tool then allows the programmer to upload the new configuration to the connected CZone system via USB Canbus Adapter (below). Each connected system module is updated simultaneously.

CZone configurations are setup, saved, duplicated and customized all from the programmer's PC using the CZone Configuration Tool.

CZone configurations can be programmed repeatedly to each new build in a manufacturing line making ongoing deployment efficient and stable. Setting up a new variation for a new vessel or vehicle is easy and simply involves duplicating the existing configuration as a base and then modifying the affected components and circuits as required.



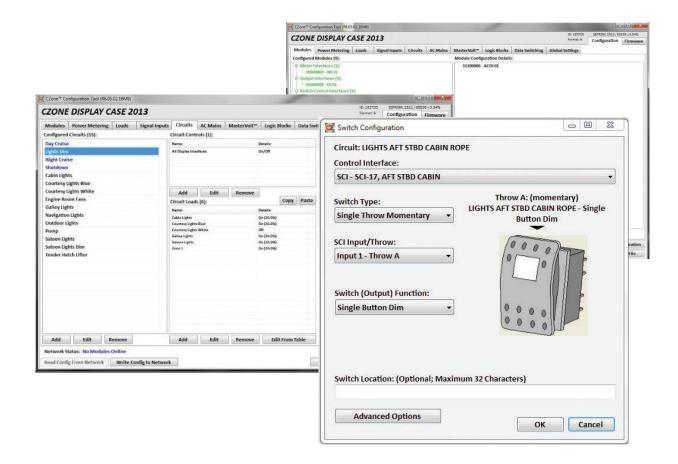
USB CAN Adapter

Connects PC to the CZone® network for configuration and system set up.

Part # 80-911-0044-00



Configuration Tool Screen Shots

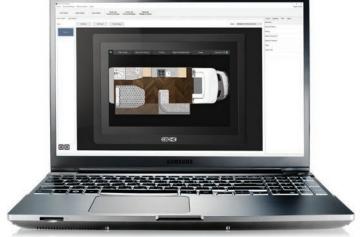


CZone Favorites Tool

- Import Schematic Plan View or Profile images of the vessel or vehicle
- Allocate Modes to the Mode Favorites banner
- Build multiple Favorites Pages
- Drag & Drop Circuits and Alarms onto the vessel or vehicle
- 6 x 4 (Touch 10 or Tablet) 4 x 2 (Touch 5 or iPhone) grid can feature any selection of desired Control Switches or Monitoring Meters.

Replaces Wireless Interface (WI) Configuration Tool Software.

The CZone Favorites software is available to technical CZone customers from the CZone Portal at downloads.czone.net



Design your own Favorites Pages

Using CZone's unique New Favorites Tool, system designers can import plan view layout or schematic drawings and located key circuits in the location they appear on board. Faults with that circuit will display in that location so the user quickly identify the item or circuit at fault and investigate it.

1 Image Selection

Start by selecting Plan View and Profile Views of your vessel or vehicle - these work great in the CZone Mimic view. When these are not available, an image of the area being controlled will also work.



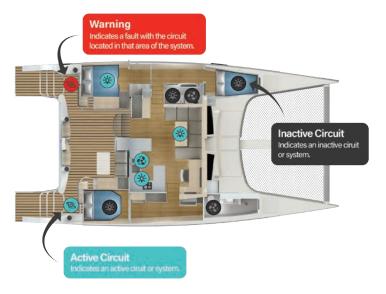
2 Design

Import the selected images and the Config for your system into the Favorites Design Tool. Drag & Drop Config controls onto the imported image so it mimics the circuits physical location. Place any number of available controls in the right location. Use multiple pages to place multiple images.



Vessel or Vehicle Mimic

Schematic Plan Views are perfect at illustrating circuit locations. Circuit Icons will show if the circuit is active. Any faults with that circuit will display in that location as a warning so the user can quickly identify where to investigate.



Grid Layouts

Drag & Drop Circuits and Alarms onto the vessel or vehicle.

- Touch 5 or iPhone uses a 4 x 2 Grid Layout
- Touch 10 or Tablet uses a 6 x 4 Grid Layout
- Variations in Resolution and Size Ratio are handled automatically

4 x 2 Grid Layout



6 x 4 Grid Layout



3 Load to CZone

The CZone Favorites Tool allows the programmer to upload the new configuration to the connected CZone system via Wifi of SD flash disk.

Access from any Interface

Access and control the new favorites pages via CZone Touch 5, Touch 10 or wirelessly via connected iPad.





CZone® Combination Output Interface (COI)

The Combination Output Interface (COI) combines multiple input and output devices into one module, offering a compact and intelligent replacement for traditional DC fuse boxes and circuit breaker panels with digital control and monitoring technology.

Digital control and monitoring systems just became more cost effective and easier to install with the CZone Combination Output Interface (COI). This one box replaces up to five separate units, with convenient Deutsch connectors and IPx5 water resistance, providing a complete CZone system for smaller applications. The COI's high continuous power output (150 amps), plus space, installation time and cost savings also make it the perfect building block for larger systems.

Quick access and overview

Partnered with either a dedicated CZone display, or with a multi-functional display from one of our integration partners (B&G, Furuno, Garmin, Lowrance, Simrad), the Combination Output Interface heralds a new era in providing simple, intuitive control over the increasingly complex systems found on today's applications.

Combination Output Inter	face (COI)
Communication protocol	NMEA 2000
Channels	30
Output channels (high)	4 x 25A
Output channels (low)	12 x 10A (dimmable)
Analogue inputs	8 (positive or negative switching, 0–32V)
Additional monitoring	2 voltage sensors (on main positive stud and NMEA 2000 power)
Circuit current monitoring	all 16 output channels
Circuit protection	Configurable electronic fuse + mechanical fuse and bypass
Digital switch inputs	6 digital input switches with backlight via digital breakout
Max. continuous current	150A at 40°C (derating > 40°C)
NMEA 2000 power consumption	250 mA at 12V 180 mA at 12V standby
Connectors	Deutsch
Power supply	M8 (5/16") stud positive, M6 (1/4") stud negative
Voltage	9–32V (with power available LED and voltage monitoring)
Bilge pump circuits	4 high current channels: integrated manual control and 'pump running' detection
Protection degree	IPx5 (mounted at 0°C +/-90°C)
Dimensions, hxwxd (incl. optional cable cover)	13.3" x 9.3" x 2.4" 338 x 235 x 62 mm
Weight	1.9 kg / 4.2 lb
Approvals	CE, ABYC, NMEA



Features

- High density 30 channel module minimizes installation, interconnections and footprint, while delivering best value per circuit
- Full mechanical fuse protection plus bypass on all circuits as required by ABYC/CE
- Industry standard Deutsch connectors provide fast, plug-n-play installation
- Optional cable cover offers improved aesthetics and greater mounting flexibility
- Proven, rugged CZone design includes IPX5 Water Ingress Protection and NMEA 2000 certification
- High power Bilge Pump channels allow manual control plus "pump running" feedback from a single channel – without additional wiring
- USB port provides easy system update from USB flash drive

Part #	Description
80-911-0119-00	COI with Connectors (includes 80-911-0131-00—COI Deutsch Connector Kit)
80-911-0120-00	COI No Connectors

Options		
80-911-0123-00	COI cable cover Optional cover for clean finish, covers connectors and cables	
80-911-0134-00	COI Digital Switch Breakout The COI Digital Switch Breakout (DSB) interfaces CZone digital switches with your CZone COI module. Including 2 mtr DSB to COI cable	
80-911-0129-00	5m COI to DSB cable (16ft)	/9
80-911-0131-00	COI Deutsch connector kit (delivered as standard with 80-911-0119-00) Includes all necessary Deutsch plugs, contacts, wafers & seals for COI	
80-911-0133-00	Deutsch HDT-48-00 crimp tool Crimp tool for Deutsch contacts	

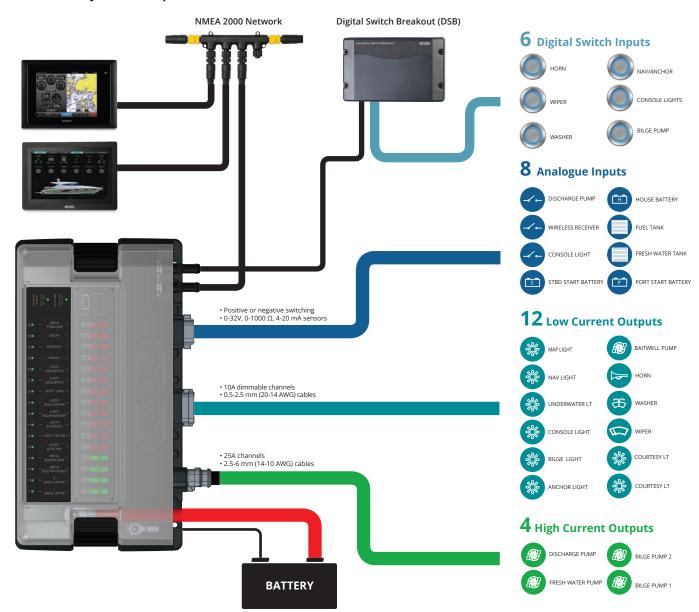
COI Digital Switch Breakout (DSB) NEW



The COI Digital Switch Breakout (DSB) is the interface between the Combination Output Interface (COI) and up to six CZone digital switches (push button or Rocker). The digital switches include dimmable LED backlighting, systems on, fault codes and a plug and play harness simplifying installation.

Part # Description 80-911-0134-00 DSB (Includes 2m COI to DSB Cable) Digital Switch Breakout (DSB) Connect up to 6 digital switches to the COI Support for single or double throw switches (up to 12 programmable switch points) Uses existing SCI switch cables with options for Rocker or push button plugs at various lengths Digital switches include dimmable backlighting for 'systems on' and fault codes Dimensions (HxWxD): 3.9" x 6.1" x 1.7" (100 x 156 x 42 mm) IPx5 water ingress protection Includes 2 m DSB to COI cable

CZone® COI System Example



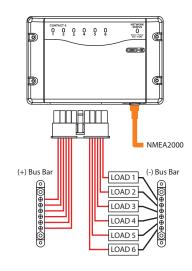
Contact 6 NEW

The Contact 6 is a digital control and monitoring module that can be networked with other CZone products or a stand alone. The Contact 6 has six independent channels that are positively or negatively switched and is ideal for smaller marine applications or recreational and specialty vehicles.

Part #	Description
80-911-0139-00	CZone Contact 6 (Interface Only)
80-911-0140-00	CZone Contact 6 (Include seal & plug kit)
80-911-0144-00	Plug pack for Contact 6
80-911-0145-00	Cable Gland for Contact 6

Contact 6	
Output Channels	6 x Relay
Output Ratings	7.5A max per channel
LED Status indication	Yes
Parallel	Yes
Dimming	No
Current Sensing	No
Circuit Protection	Internal PTC Fuses (auto-reset)
Overcurrent Alarm	No
Circuit Bypass	Yes (electronic)
Connector	Amp 18 Way Connector
Max Wire Size	16AWG (1mm²)
Maximum Current	30A Continuous
Power Consumption	35mA (standby)
Voltage	9-16V
Ingress Protection	IPx5
Communication	NMEA 2000
Operating Temp	-15 °C to +55 °C (5 °F to 131 °F)
Certification	CE, NMEA









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Switch Control Interface (SCI)

The Switch Control Interface provides an interface between the CZone network and the traditional mechanical switches with which manufacturers and users are familiar. The SCI simplifies your wiring, supports your existing choice of switches, protects against failures and allows for more installation options.

Part #	Description
80-911-0011-00	Switch Control Interface with seal
80-911-0012-00	Switch Control Interface only

Switch Control Interface (SCI)
Single switch position can control multiple OI channels
Attaches to switch panels via custom SCI cable
Multiple SCI switches can control single OI channel
Output for backlighting of switch labels (dimmable)
Outputs systems on and function/fault codes to systems on LED of switches (dimmable)
Choice of push button or rocker style switch
Dimensions (HxWxD): 3.94" x 6.14" x 1.65" (100x156x42mm)
IPX5 water ingress protection
Programmable switch types
8 inputs per module (16 individual controls)
Sequential button press functionality Choice of push button or rocker style switch

Signal Interface (SI)

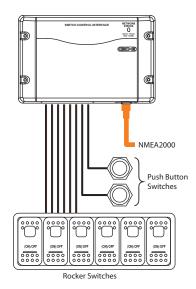
The Signal Interface connects the CZone system to your external sensors, alarms and switching devices. The SI allows intelligent, automated operation of circuits depending on the state of the input.

Part #	Description
80-911-0013-00	Signal Interface with seals, connector
80-911-0014-00	Signal Interface only

Signal Interface (SI)
Accepts inputs from traditional switch types being used to control outputs
Accepts inputs from switches to trigger alarm i.e. high water float switch
Accepts inputs from industry-standard tank senders (0-5V, 10-180 Ohm, 240-33 Ohm)
Accepts inputs from general voltaic or resistive signals, can be used for controlling outputs or to display a physical position i.e. show a hatch is partially open
LED status indicators for each input
Dimensions (HxWxD): 3.94" x 6.14" x 1.65" (100x156x42mm)
IPX5 water ingress protection
Outputs standard NMEA 2000 fluid, temperature and pressure sentences
Resistive input range 0–1000 Ohms
Voltage sensing input range 0–34V DC

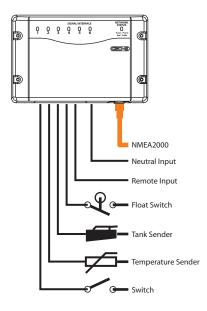














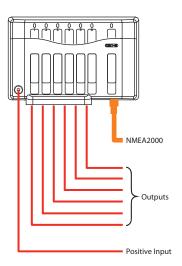
Output Interface (OI)

The Output Interface provides an intelligent replacement for traditional circuit breaker and fuse panels. It has six high power, robust output channels which provide the power supply, control and fusing for a circuit as well as integrating many other features such as timers and dimmers. Connection to the unit is simple: a large 6-way plug allows connections to cables of up to 16 mm² (6 AWG) in size, or multiple smaller conductors. No need for specialized crimp terminals and expensive crimp tools to be carried for terminations to CZone, just a blade screwdriver. A protective flexible boot offers protection to the connections from harsh environment conditions.

Part #	Description	
80-911-0009-00	Output interface with connector and protective boot	
80-911-0010-00	Output interface only	
Output Interface (OI)		
4 levels of backup fusing including manual override (as required by ABYC)		
Multiple channels can be bridged together to offer higher current switching		
Power consumption 12V: 85 mA		
Dimensions (HxWxD): 5" x 7.87" x 1.75" (128x200x45mm)		
Small, non-metallic, easy to install case		
IPX5 water ingress protection		
6 x 20 amps circuits		
Programmable software 'fuse' sizes		



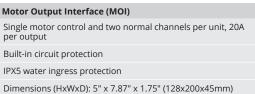




Motor Output Interface (MOI)

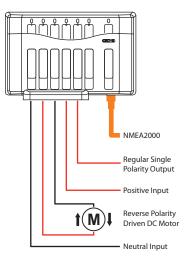
The Motor Output Interface has an output pair for controlling DC motors which require a reversal of polarity to change the direction of their mechanical operation. For example, a DC motor for an electric window mechanism will move the window up or down depending on the polarity of the feed to the motor. The MOI also incorporates two standard output channels as found on the OI.

Part #	Description
80-911-0007-00	Motor Output Interface with connector and protective boot
80-911-0008-00	Motor Output Interface only
Motor Output Interface (MOI)	









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Output Interface Parts

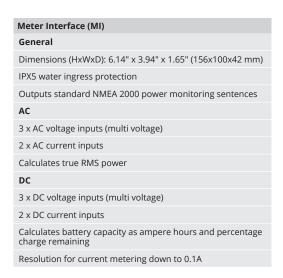
- 1 Fuses for emergency circuit bypass
- 2 Network status indicator
- 3 NMEA 2000 connector
- 4 Connector and protective boot



Meter Interface (MI)

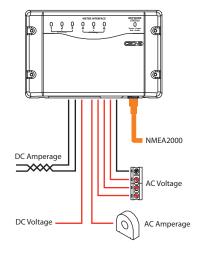
The Meter Interface accepts inputs from external AC and DC power metering sensors such as: AC and DC voltage and amps, AC kWatts, and DC battery capacity in amp hours and % remaining. All with user definable high and low alarms.

Part #	Description
80-911-0005-00	Meter Interface, with seal and plug
80-911-0006-00	Meter Interface only









CZone® AC Output Interface (ACOI)

Simplify the way you network, monitor and control onboard AC circuits. The AC Output Interface does it all and provides circuit protection for all onboard AC devices. It is easy to install, configure and operate the digital control system with pre-wired components for quick connections. This gives you a customizable solution to suit unique installation and application needs, including 'night running' or 'at anchor' as well as control at multiple locations. It has eight outputs (up to 50A each), supports multiple pole designs and multiple separate buss feeds. To make it easy, status LEDs and manual bypass are located right at the enclosure.

ACOI is a custom ordered product. Each Customer's ACOI will vary based on their requirements. Contact your account manager for requirements.

AC Output Interface (ACOI)

Circuit status and run current displayed for each circuit

Customizable to suit installation requirements

Pre-wired for quick connection

Staggered start up of loads

110V, 240V, 110/220V

Supports multiple pole designs, i.e. double, triple, four pole

Utilizes standard DIN rail mounted components for circuit protection

Can support two separate buss feeds (i.e. 2 load groups) in one box

Delay before circuits come on to allow generators to come up to speed

Provides circuit protection and control

Status LEDs at enclosure

Manual bypass at enclosure

Provision for MCB/RCDs

Timers

50 or 60 Hz





ACOI Standard

- 8 x 50A relays protected with 10A MCB's
- · Pre-wired
- · Current monitoring on each channel
- · IPX5 enclosure
- Dimensions (HxWxD): 17" x 10.8" x 7.3" / 430 x 276 x 186 mm

Part # 80-911-0069-00 This part number will change. This should only be used for quoting purposes.



ACOI Dinrail Mount

- 8 x 50A relays
- · Fitted with 600 mm tails
- · Cost effective solution, own enclosures and MCB's can be sourced
- · Current monitoring on each channel
- · Dimensions (HxWxD): 3" x 6.3" x 2.4" / 77x160x60 mm

80-911-0096-00 Black tails (US)

80-911-0082-00 Brown tails (APAC/Europe)

g 35

CZone® AC Mains Interface (ACMI)

A sophisticated source selector or transfer switch, the AC Mains Interface enables the user to specify which AC power source is actively supplying power to the ship (generator, inverter, or shore power). Developed for use with the CZone digital control system, but may also be used a stand-alone device. The ACMI can be programmed to automatically change the supply source when the current rating is exceeded, and includes a manual override and user-friendly display screen that ensures easy current, voltage, frequency, and power monitoring. Other features include six monitored, over-current protected main power inputs of up to 100A each, as well as two outputs, which enables two separate load groups and a parallel option for use with a single source. To simplify installation, the ACMI comes pre-wired for easy installation.

ACMI is a custom ordered product. Each Customer's ACMI will vary based on their requirements. Contact your account manager for requirements.

AC Mains Interface (ACMI)

6 Source inputs up to 125A (eg. 2x shore power, 2x generator)

Monitoring of channel status (on/off/fault)

Provides circuit protection and control

Manual override at enclosure and via remote panel

Customizable to suit installation requirements

Supports multiple pole designs, i.e. double, triple, four pole

110V, 240V, 110/220V

IPX5 enclosure

Utilizes standard DIN rail mounted components for circuit protection and control $% \left(1\right) =\left(1\right) \left(1\right)$

Current, voltage, frequency and power monitoring incorporated (six channels)

Physical and software lockouts between source controls (prevents two sources from becoming connected)

Reverse polarity and bad power supply alarms including auto disconnect and lockouts

2 Outputs (load groups), allows for two separate load groups with parallel option for use with single source

Auto changeover (non-seamless)

Provision for RCD's

Load shedding

Status LEDs at enclosure

Pre-wired for quick connection

Timer controls

50 or 60 Hz





ACMI Standard

- 3 Inputs—1x 16A Shore Power, 1x 32A Shore Power, 1x 50A Generator with Parallel
- 2 Load Groups—40A
- 230V AC 50Hz
- Current, voltage, frequency and power monitoring incorporated
- · Manual override panel on enclosure
- Dimensions (HxWxD):
 17" x 21.3" x 7.3" / 430 x 540 x 186 mm

Part # 80-911-0068-00

This part number will change. This should only be used for quoting purposes.

ACCESSORIES

NMEA 2000 Approved Cables & Connectors



NMEA 2000 Approved cables and connectors for creating or expanding an NMEA 2000 network quickly and easily. Ends are color coded to make identifying the power cable or connector easy. Premium Quality. Universal Fit.

CZone Installation Accessories

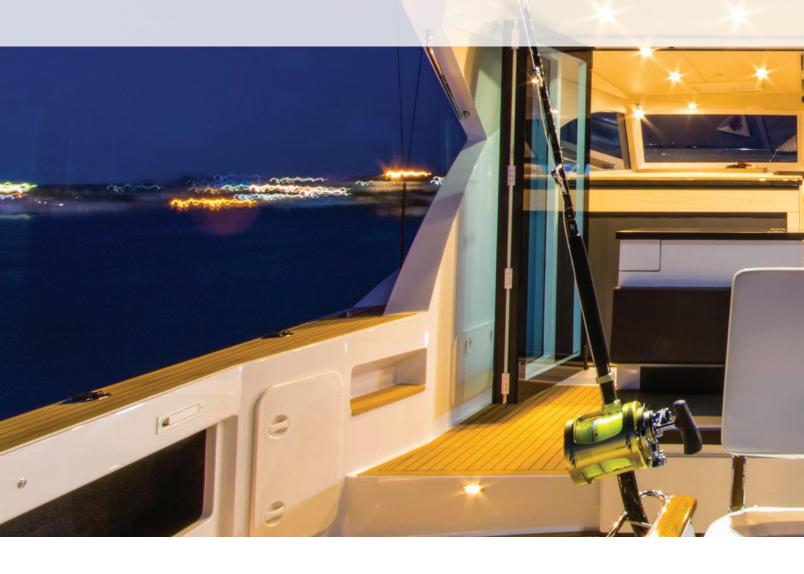


Various components that are necessary to properly install a CZone digital control and monitoring system.

CZone® Wireless Remote Kit



Simple to set up, wireless remote control. Buttons are configurable for momentary on or latching control of circuits.



ACCESSORIES

USB CAN Adapter



Connects PC to the CZone® network for configuration and system set up.

Push Button Switches



3.5 volt switches designed to work exclusively with CZone® systems. Momentary and latched actuation options are available.

Wireless Interface



Allows your iPad® to interface with an onboard digital control and monitoring system for full monitoring and control of the electrical equipment via a clear and intuitive display. The interface acts as a hub for the seamless connection between the two popular digital control and monitoring protocols of MasterBus and CZone®.



CZone® Accessories



NMEA 2000 Power Isolator

Used for isolating power between 2 independent NMEA 2000 networks.

Part # 80-911-0137-00



2 Way Tee Connector

Connects multiple devices into the NMEA backbone.

Part # 80-911-0047-00



4 Way Tee Connector

Connects multiple devices into the NMEA backbone.

Part # 80-911-0048-00





Single Tee Connector

Connects a single device into the NMEA backbone.

Part # 80-911-0029-00





Terminating Resistors

Use at either end of the NMEA backbone to complete the network. Each network must have a male and female terminator.

Part # 80-911-0031-00 Male Part # 80-911-0030-00 Female





90° Elbow Connector

Space saving connector for modules, displays and cabling connections.

Part # 80-911-0046-00



Power Cable

Provides power to the NMEA 2000 network. 18 AWG/0.8mm² conductors meet ABYC/CE standard for minimum conductor size plus add connection to protect the network from electromagnetic interference.

Part # 80-911-0028-00 3.2 ft 1 m



Backbone Cable

Special low volt drop Backbone Cable ensures ultimate reliability for your NMEA 2000 network.

 Part #
 80-911-0026-00
 1.6 ft
 .5 m

 Part #
 80-911-0027-00
 6.5 ft
 2 m

 Part #
 80-911-0024-00
 16 ft
 5 m

 Part #
 80-911-0025-00
 32 ft
 10 m



Drop Cable

Thinner, more flexible Drop Cables connect individual devices to the NMEA network. New 3 ft/1m length adds convenience.

 Part#
 80-911-0116-00
 1.6 ft
 .5 m

 Part#
 80-911-0117-00
 3.2 ft
 1 m

 Part#
 80-911-0118-00
 6.5 ft
 2 m

 Part#
 80-911-0115-00
 16 ft
 5 m



Spare Power Cable for Touch 10

Supplies power for Touch 10 display
• 2 pin, 6.5 ft (2 m)

Part # 80-911-0032-00





Blanking Caps

Protects unused Tee Connector from dust and water.

Part # 80-911-0050-00 Male Part # 80-911-0051-00 Female



Hole Plugs

3.2 mm for MI and SI cable glands 5 mm for SCI cable glands

Part # 80-911-0016-00 3.2 mm Part # 80-911-0017-00 5 mm



Cable Gland for SCI, Silicone

Part # 80-911-0035-00



Cable Gland SI, Silicone

Part # 80-911-0036-00



Cable Gland, MI, Silicone

Part # 80-911-0033-00



Terminal Block SI/MI, 8 Way

Part # 80-911-0043-00



Terminal Block OI/MOI, 6 Way

Part # 80-911-0041-00



Terminal Block for MI, 6 Way

Part # 80-911-0042-00



Seal Boot for OI/MOI 6-Wire, Black Silicone

Part # 80-911-0034-00



COI & DSB Accessories NEW

Accessories & Spares for Combination Output Interface (COI) and Digital Switch Breakout (DSB).

Part # 80-911-0123-00 COI Cable Cover
Part # 80-911-0129-00 COI to DSB Cable 5m
Part # 80-911-0131-00 COI Deutsch Con Kit
Part # 80-911-0133-00 Deutsch HDT-48-00





Contact 6 Accessories NEW

Accessories & Spares for Contact 6.

Part # 80-911-0144-00 Plug pack for Contact 6

Part # 80-911-0145-00 Cable Gland for Contact 6



Through Bulkhead Adaptor

For use on the backbone to transition through a waterproof bulkhead or can be used to connect removable equipment such as a computer interface.

• NMEA 2000 Network



Female Field Serviceable Connector

For terminating bare NMEA cable.

• NMEA 2000 Network

Part # 80-911-0053-00





Male Field Serviceable Connector

For terminating bare NMEA cable.

NMEA 2000 Network

Part # 80-911-0054-00



CZone® Accessories





Custom Rocker Switches

Red or blue systems in operation and backlighting LED's.

Part #	80-911-0037-00	ON/OFF	red LED
Part #	80-911-0038-00	mom ON/OFF	red LED
Part #	80-911-0039-00	ON/OFF/ON	red LED
Part #	80-911-0040-00	mom ON/OFF/mom ON	red LED
Part #	80-911-0066-00	mom ON/OFF	blue LED
Part #	80-911-0071-00	mom ON/OFF/mom ON	blue LED



Rocker Switch Cable Assembly

Suitable for Switch Control Interface (SCI) and Digital Switch Breakout (DSB) compatible with rocker switches.

Part #	80-911-0018-00	.5 meter
Part #	80-911-0019-00	1 meter
Part #	80-911-0020-00	2 meter
Part #	80-911-0021-00	3 meter
Part #	80-911-0022-00	4 meter
Part #	80-911-0023-00	5 meter

Contura and Rocker Switch Mounting Brackets NEW

- Mount multiple Contura or Rocker style switches in one opening
- Provides a neat, finished appearance on dash or panel surfaces







1001717 Single



1001703 End (L or R)



1001702 Double



1001701 Triple (plug included)





Push Buttons

For use with CZone systems only (3.5 Volt)

- · Momentary and latched actuation options available
- Blue and red circuit status indication LED options
- 19 mm mounting hole
- IP67 environmental protection
- · Stainless Steel components
- · Maximum 5 amps each

Part #	80-911-0060-00	Momentary (ON)OFF	red LED
Part #	80-911-0063-00	Latching ON/OFF	red LED
Part #	80-911-0062-00	Momentary (ON)OFF	blue LED
Part #	80-911-0061-00	Latching ON/OFF	blue LED



Push Button Cable Assembly

Suitable for Switch Control Interface (SCI) and Digital Switch Breakout (DSB) compatible with push buttons.

Part #	80-911-0085-01	.5 meter
Part #	80-911-0086-01	1 meter
Part #	80-911-0087-01	2 meter
Part #	80-911-0088-01	5 meter
Part #	80-911-0089-01	8 meter

USB CAN Adapter

Connects PC to the CZone network for configuration and system set up.

Part # 80-911-0044-00



CZone® Wireless Remote Kit

Simple to set up, wireless remote control. Buttons are configurable for momentary on or latching control of circuits.

- 250 ft (80 m) operating range
- Includes (2) key fobs and a receiver box
- Rolling code

Part # 80-911-0045-00





Heavy-duty Current Transformer

- · Maximum current 150A AC
- CT-HD is available for systems with large mains cables, too large for CT-10-3 (ordered separately)
- CT-HD dimensions: Ø 1.85 x 0.4"
 (Ø 47 x 10.5 mm)
- Hole size: 1.25" (32 mm)

Part # CT-HD



Current Transformer

- · Maximum current 150A AC
- One CT-10-3 current transformer is supplied with ACSM. If a twin line system is in use, a second CT must be ordered.
- Dimensions: 1.5" x 1.55" x .55" (37.5x39.2x13.7 mm)
- Hole size: 0.5" (12 mm)

Part # CT-10-3



Surge Protection Module

Protect your electronics from becoming damaged by harmful high voltage spikes. When fitted to the battery supply these modules look for sudden increases in voltage then switch into protection mode to absorb and suppress the high energy spike.

Part # 80-707-0004-00 12V DC Part # 80-707-0005-00 24V DC

DC Current Shunt

- 450A / 50 mV shunt supplied with 80-600-0021-00
- 3.25"L x 2.8"W x 2.75"H (83L x 45W x 44H mm)

Part # LB-450-50



AC Transducer

- Includes 3 voltage transformers for up to 3 voltage inputs
- 2.75" x 5.5" x 2" (69 x 140 x 50 mm)
- · Used for AC voltage measurement

Part # AC-VSEN-4







CZone® Network Bridge Interface

For isolating sections of an NMEA 2000 network to decrease standby current draw. Isolation when bridging between two CAN networks, (eg connecting CZone to Simrad Simnet). For expansion of the NMEA 2000 network when the maximum node limit for the network has been reached (node = any device connected to the NMEA 2000 network). Once fitted, 40 additional nodes can be added.

Part # 80-911-0057-00





MASTERVOLT

CZone®-MasterBus Bridge Interface

The CZone MasterBus Bridge Interface physically connects the MasterBus and CZone networks together, enabling the two networks to communicate and act as one. This provides seamless control and monitoring of Mastervolt power electronics from CZone displays or partner products.

Features:

- Control of Mastervolt inverters and chargers from CZone displays, switches or integrated products
- Display MasterBus acquired systems information such as tank and power levels on CZone displays
- Transfer of alarms between both systems

Part # 80-911-0072-00

Dimensions (hxwxd)	2.7 x 2.7 x 2 inch / 69 x 69 x 50 mm
Weight	0.32 lb / 145 g
Protection	IP65
Includes	Cable adapter, Terminator, User's manual



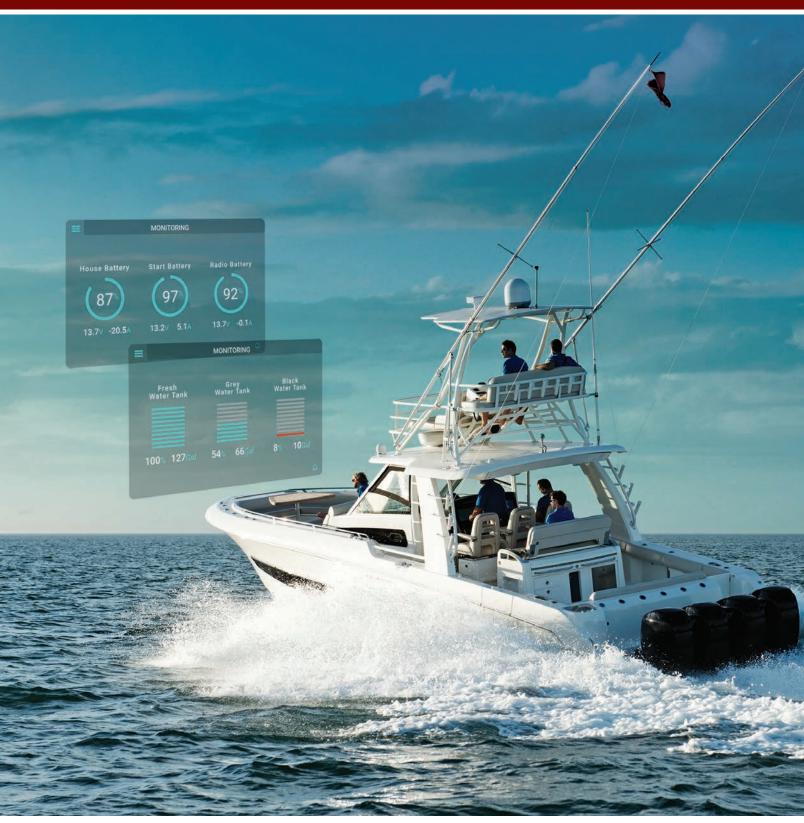
Wireless Interface

Wireless monitoring and control of onboard systems from your tablet. Allows your tablet to interface with an onboard digital control and monitoring system for full monitoring and control of the electrical equipment via a clear and intuitive display. The interface acts as a hub for the seamless connection between MasterBus and CZone.

Part # 80-911-0090-00 Wireless Interface
Part # 80-911-0095-00 WI MasterBus

Wireless Interface
WI MasterBus
connector
(required for MasterBus
connection)

SYSTEM INTEGRATORS



SYSTEM INTEGRATORS





CZone® Digital Control & Monitoring

Simplify your boat's electrical system by changing the onboard environment with a single touch. CZone simplifies the operation of your vessel by giving you complete control of all the electrical components with the touch of a button. Customized modes automatically optimize the boat or vehicle for specific situations. Whether it's a day of fishing or cruising, make your time on the water, or on the road, safer and more enjoyable when you let CZone do the thinking.



Check out our CZone video

Simplicity

CZone simplifies the electrical system by replacing complicated, switch and fuse panels with compact state-of-the-art interfaces and light NMEA 2000 network cable. This intuitive system makes it easy to monitor and manage critical functions. In addition, multiple circuits can be combined into a single button to simplify control on the vessel.

Innovation

System integration is the future. CZone offers greater flexibility and visibility of the electrical system; consolidating control into a common user interface. Control the same circuit from a variety of digital switches, touch screen interfaces, or wirelessly via key fob remote or iPad.

Reliability

CZone has proven reliability with over 10 years' experience in marine installations. CZone's durability has been tested in some of the harshest conditions through a key partnership with Volvo Ocean Race Yachts.







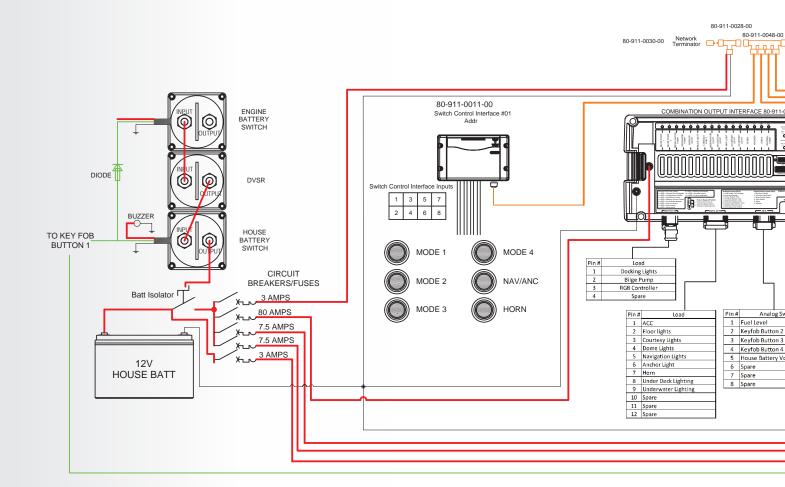
CZone® System Support

Power Products System Integrators, a division of Power Products LLC provides comprehensive CZone integration services including:

- System Design
- Production
- Configuration
- Support

Our expert team of marine and mobile electrical engineers ensures optimum CZone system requirements including hardware, wire harnessing, and installation. Working directly with our OEM partners, Power Products System Integrators helps identify key performance requirements of the CZone system, and then provides design services, wire harnessing, and full system production / integration.

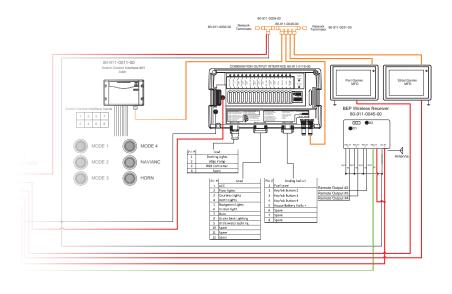




Power Products System Integrators Services

System Design

Power Products System Integrators provides complete design support for CZone system implementation. Our CZone experts work in conjunction with OEM partners to determine CZone system requirements based on load lists and performance. Once the functional specifications are identified, Power Products System Integrators will determine which output modules are necessary to build the CZone system, as well as the wiring schematic. A detailed Bill of Materials is generated with all necessary components.





Production

Once the CZone system design has been confirmed, it is critically important to ensure proper wire routing and connections. Power Products System Integrators has the expertise to produce wire harnessing and connections to ensure that all of the CZone modules are communicating and functioning. All of the components and materials used in production are designed for the harsh marine environment.

Configuration

Power Products System Integrators provides complete design support for CZone system implementation. Our CZone experts work in conjunction with OEM partners to determine CZone system requirements based on load lists and performance.





Support

Power Products System Integrators provides comprehensive post-sale support. Expert technical service, application engineers, and 24/7 online information ensures that the necessary resources are available to the customer.

CZone System Options

Power Products System Integrators offers multiple ways to incorporate CZone into your specifications:

1) Components only

If you have qualified electrical engineers on staff, and have the resources to design, build, and install CZone modules and wiring, we can simply provide the necessary components to facilitate your build.

2) Kit System

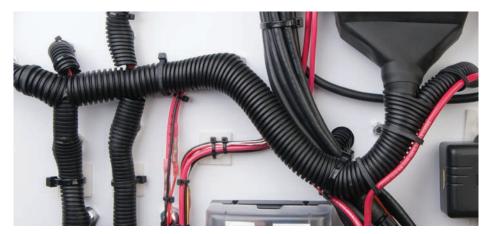
Power Products System Integrators will provide CZone modules and pre-built wiring harnesses which simplifies the installation of a CZone system.

3) Fully Integrated System

Power Products System Integrators will design, and build a complete CZone system including all modules, wiring, and connectors, and mount to a substrate. This allows you to simply install the complete system.

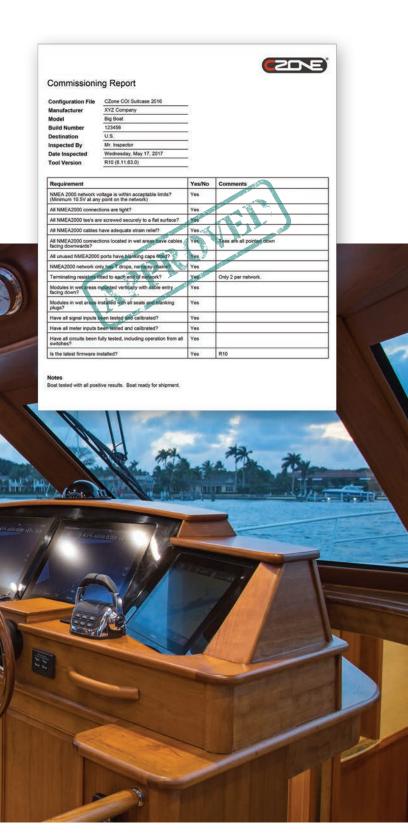


Wiring Harnesses



System Validation, Auditing, and Commissioning

After the CZone system has been designed, built, and installed, Power Products System Integrators will ensure everything is working properly. Power Products System Integrators engineers will be on location to confirm functionality, validate the design, and provide final sign off on the system.



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80-911-0014-00	31	80-911-0041-00	39	80-911-0086-01	40	80-911-0133-00	39
80-911-0016-00	38	80-911-0042-00	39	80-911-0087-01	40	80-911-0134-00	28
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80-911-0021-00	40	80-911-0046-00	38	80-911-0095-00	23	80-911-0140-00	30
80-911-0022-00	40	80-911-0047-00	38	80-911-0095-00	41	80-911-0144-00	30
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80-911-0025-00	38	80-911-0051-00	38	80-911-0101-00	18	80-911-0145-00	39
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Ingress Protection (IP) Ratings Guide

Example:

An IP65 rating can be determined using the adjacent table and example:

- The first number of the rating example,
 6, in the gray column means the enclosure is dust tight
- The second number of the rating example,
 5, in the blue column means the enclosure is protected against jets of water

The IP rating system was established by the International Electrotechnical Commission (IEC), an organization for international standards and conformity assessment. The IEC collaborates closely with the International Organization for Standardization (ISO). A complete description of the IP ratings and associated tests is found in IEC Publication 529. Although these ratings were initially developed as a way to classify enclosures, they now provide a convenient, practical way to compare levels of sealing. Many electrical products have an Ingress Protection (IP) rating which identifies the environmental factors needing consideration prior to the product's installation.

This is important when deciding when to mount products in a dry and clean environment versus a wet and/or dusty environment. The IP rating indicates the degree of protection provided. The numbers following IP represent levels of sealing and can range from no protection to full protection against dust and water. The table provides a description of the protection at each level.

