




# GarrettCom Power Clip

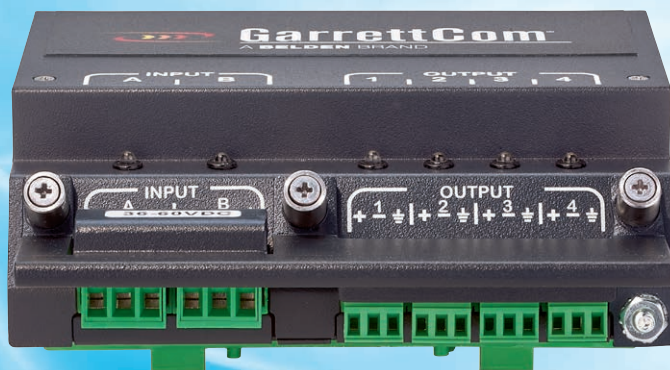
## Dual-Input Field-Wiring Terminal

An efficient, compact, cost-effective way to provide redundant power and maintain high network availability for both legacy equipment and new installations.

-  **Provides redundant power inputs** to Power over Ethernet (PoE) switches that power critical equipment to ensure continuous operation
-  **Operates in harsh environments** to ensure longer life and provide resistance against dirt, dust and other contaminants
-  **Meets industrial-grade compliance standards** for safety, emissions, shock/vibration, and industry-specific testing and certifications

### Key Features

- Ruggedized, compact design with the highest operational temperature range (-40 °C to +85 °C)
- Supports maximum power output up to 100 watts for each terminal output
- Rigorously tested to meet industry-specific certifications, including IEC 61850-3, IEEE 1613, MIL-STD-810G, EN50155, DNV, CE and NEBS
- Supports both high and low power ranges, including 12, 24, 48, 60, 110, 125 or 250 V DC
- Several mounting options (DIN rail, panel or tray)
- Support for PoE/PoE+ redundancy
- Dual input, quad output



The GarrettCom Power Clip is a field-wiring terminal that offers dual power source inputs and up to four power outputs to four separate devices. Redundant power helps ensure continuous operation in the event of single-source failure.

**Be certain.**  
**Belden.**

## Your Benefits

### Redundant Power for Mission-Critical Equipment

GarrettCom's Power Clip provides the highest number of power outputs in a single compact package compared to other equipment on the market. Other devices usually provide just one or two per package.

Oftentimes, equipment – such as switches and appliances – is placed into mission-critical networks, relying only on single-source power without redundancy. With the Power Clip, you can now easily provide connectivity to dual power supplies for up to four devices. If a power source connected to the Power Clip is interrupted, the device auto-senses the failure and instantly switches to the second, independent power input. With the Power Clip, power to the end devices continues without interruption.

These Power Clip field-wiring terminals have been designed with advanced thermal properties, too. Models are available that can operate in temperatures ranging from -40 °C to +85 °C and include convection cooling to help ensure longer life and to provide resistance against dirt, dust and other contaminants.

### Applications

Robust construction and features make the Power Clip terminals ideal in industrial and utility settings where uptime is critical. Additionally, the product's compact size and ability to perform in extreme temperatures make it well-suited for outdoor locations especially inside enclosures where temperatures are the most extreme.

### Markets

The GarrettCom Power Clip can withstand the harsh operating environments across all industrial sections – especially in power-critical applications like PoE security installations. Other applications include environments where high availability is desired and necessary, such as power transmission & distribution, oil and gas, manufacturing, and water/wastewater. It's also ideal wherever space is limited and conditions are harsh, as in mining, automotive, alternative energy production, conventional power generation (including nuclear), transportation and mass transit, as well as seaports, airports, and railway and train stations.



If one power supply fails, the Power Clip's auto-switchover mechanism automatically supplies power from the second (backup) power source, keeping equipment running while testing and repairs are performed.



## Technical Information

Power Input Model Options				
Type	PC-12DC	PC-24DC	PC-48DC	PC-HIDC
Description	Low input voltage range (12 V DC) with polarity. 200 watts max total power (50 watts per each terminal output)	Low input voltage range (24 V DC) with polarity. 400 watts max total power (100 watts per each terminal output)	Low input voltage range (48/60 V DC) w/polarity. 400 watts max total power (100 watts per each terminal output)	High input voltage range (110/125/250 V DC) w/polarity. 400 watts max total power (100 watts per each terminal output)
Order No.	942 259-002	942 259-003	942 259-004	942 259-001
Power Requirements				
Operating Voltage	12 V DC	24 V DC	48/60 V DC	110/125/250 V DC
Output Power	200 watts	400 watts	400 watts	400 watts
Ambient Conditions				
Operating Temperature	-40 °C to +85 °C			
Storage Temperature	+55 °C to +125 °C (all models)			
Humidity	5 to 95% RH (non-condensing)			
MTBF	> 219,000 hours at +50 °C			
Altitude	13,000 ft.			
Industrial Surge and Spike Protection	5kV peak (8/20µs)			
Conformal Coating	Available upon request			
Mechanical Construction				
Mounting	Ready to be DIN rail or panel mounted. Tray-mounting: up to three units may fit in tray (sold separately)			
Material	Corrosion-resistant steel with powder coating			
Dimensions	Width: 4.8 in (12.1 cm), Height: 1.7 in (4.3 cm), Depth: 4.2 in (10.7 cm), Depth with retainer bracket: 4.5 in (11.4 cm)			
Weight	1.2 lb. (0.55 kg)			
Protection Class	IP52 (IEC 529, NEMA 250)			
Approvals and Compliance				
Safety	UL/CSA/EN/IEC 60950-1, 2nd Edition CB report			
Emissions	EN/ETSI 300-386, FCC Part 15			
EN55022,24	AN/NZ CISPR22, VCCI, EN61000-6-4 Class A, CFR 47-FCC part 15, ICES 003, Class A			
Hazardous Locations	UL/cUL Class 1 Div 2, ATEX Zone 2			
IEC 61850	EMC & Environmental Operating Conditions Class C for Power Utility substations (KEMA)			
IEEE 1613	Class 2 Environmental Standard for Power Utility Substations			
NEMA TS-2	TEES for DC- and PoE-powered traffic control equipment			
Military	MIL-STD-810G			
Marine	DNV			
Mining	Directive 2006/31/EC			
Telecom	NEBS, GR63 & GR1089, L3, ETSI 300 386			
Railways	EN50155 and EN50121-4 Compliant			
Shock & Vibration	IEC 60068-2-27 & IEC 60068-2-6			
Freefall	IEC 60068-2-32			
RoHS	(Pb free) and WEEE compliant			
Immunity	<ul style="list-style-type: none"> <li>• EN61000-4-2 (ESD) Level 4, EN61000-4-3 (RFI) Level 4</li> <li>• EN61000-4-4 (EFT) Level 4, EN61000-4-5 (Surge) Level 4</li> <li>• EN61000-4-6 (C. Susceptibility) Level 3</li> <li>• EN61000-4-8 (PF Magnetic Field) Level 4</li> <li>• EN61000-4-10 (Damp Osc.) Level 4</li> <li>• EN61000-4-11 (VDI) Class 3</li> <li>• EN61000-4-12 (Osc. Wave Im.) Level 3</li> <li>• EN61000-4-16 (I.C. CMD) Level 3</li> <li>• EN61000-4-29 VDSI on DC Input</li> <li>• EN61000-6-2, EN61000-6-5 DT&amp;T-NL, Immunity PS&amp;SS</li> </ul>			
Reliability				
MTBF	> 219,000 hours at +50 °C			
Warranty	7 years			

**NOTE:** These are the prominent technical specifications. For complete technical specifications visit: [www.garrettcom.com](http://www.garrettcom.com)

## Belden Competence Center

As the complexity of communication and connectivity solutions has increased, so have the requirements for design, implementation and maintenance of these solutions. For users, acquiring and verifying the latest expert knowledge plays a decisive role in this. As a reliable partner for end-to-end solutions, Belden offers expert consulting, design, technical support, as well as technology and product training courses, from a single source: Belden Competence Center. In addition, we offer you the right qualification for every area of expertise through the world's first certification program for industrial networks. Up-to-date manufacturer's expertise, an international service network and access to external specialists guarantee you the best possible support for products.

Irrespective of the technology you use, you can rely on our full support – from implementation to optimization of every aspect of daily operations.



### Always Stay Ahead with Belden

In a highly competitive environment, it is crucial to have reliable partners who add value to your business. When it comes to signal transmissions, Belden is the No. 1 solutions provider. We know your business and want to understand your specific challenges and goals to show how effective signal transmission solutions can push you ahead of the competition. By combining the strengths of our five leading brands, Belden, GarrettCom, Hirschmann, Lumberg Automation and Tofino Security, we are able to offer the integrated solution you need. Today, it may be a single cable, switch or connector, to solve a specific issue; tomorrow, it can be a complex range of integrated applications, systems and solutions. With the rise in smart, connected devices brought on by the Industrial Internet of Things (IIoT), together, we can make sure your infrastructure is ready to handle and make sense of the influx of data. Transform your business now with instant access to information, and make your vision a reality. Visit [info.belden.com/iiot](http://info.belden.com/iiot) to learn more.

### About Belden

Belden Inc., a global leader in high quality, end-to-end signal transmission solutions, delivers a comprehensive product portfolio designed to meet the mission-critical network infrastructure needs of industrial, enterprise and broadcast markets. With innovative solutions targeted at reliable and secure transmission of rapidly growing amounts of data, audio and video needed for today's applications, Belden is at the center of the global transformation to a connected world. Founded in 1902, the company is headquartered in St. Louis, USA, and has manufacturing capabilities in North and South America, Europe and Asia.

For more information, visit us at [www.belden.com](http://www.belden.com) and follow us on Twitter [@BeldenIND](https://twitter.com/BeldenIND).

Got questions? Need to talk to an expert? Send us an email:  
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