



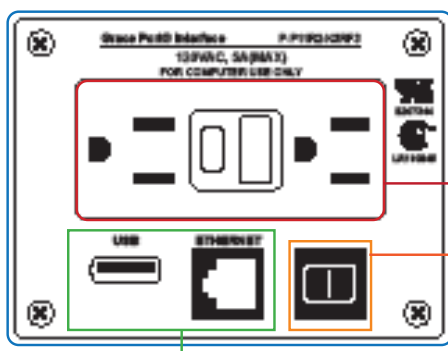
GracePort® Panel Interface Connectors offer safe, external access to industrial control panels, enabling maintenance and programming activities without the need to open the panel.

Customer Problems and GracePort® Solutions

- **Reduced Electrical Hazards:** Opening panel doors increases exposure to electrical dangers like shock hazard and arc flash; GracePort® eliminates this need, enhancing safety by externalizing connections.
- **Streamlined External Connections:** Direct access to PLCs, VFDs, and data collectors is often hindered by internal setups; GracePort® simplifies this by bringing connections outside, boosting productivity and safety.
- **Enhanced Enclosure Safety:** The risk of electrical hazards from servicing equipment inside panels is high; GracePort® reduces these risks by allowing maintenance and programming from outside, keeping doors closed.
- **Continuous Environmental Shielding:** Sensitive components like circuit boards are vulnerable when exposed to environmental contaminants; GracePort® protects these by maintaining a closed enclosure during connectivity and maintenance tasks.

Features and Benefits

- All GracePort® with housings are UL Listed allowing integration with existing UL-certified equipment.
- Over 20,000+ unique configurations created and shipped in 2-3 business days.
- A wide variety of components including USB, RJ45, USB-C, domestic and international outlets with flexible mounting options.
- Faceplates are customizable with special text and customer logos.
- UL Type 1, 2, 3, 3X, 3R, 3RX, 4, 4X, 5, 12, 12K, 13.
- Stainless steel housing options available, type #316.
- The MagView™ and ThruView™ 360 housings are IP69K rated ensuring complete protection against high-pressure water.



Housing Size & UL Rating

Several housing types are available to meet your needs. The size of your housing depends on several variables including the kinds of components you choose, the power option you want and, in some cases, the UL rating you need.

Power Option / Circuit Breaker

Many power options for international and domestic use are available and are represented by a one, two, or three letter code. Because circuit breakers offer the ability to limit what devices can be run through the GracePort®, we offer different amperages as well.

Components

There are various connectors available and are represented by a two to three digit code found in between the first two dashes of our GracePort® part number layout. Multiple connectors in a GracePort® are listed alpha-numerically and multiples of the same component are followed by # and the quantity.

Customers and Industry Successes

Common Theme (automation, control systems, and industrial engineering)

- Customers likely specialize in providing solutions for industrial automation, control systems design, electrical engineering, manufacturing automation, process automation, and related services.
- GracePorts cater to a wide range of industries including manufacturing, automotive, food and beverage, packaging, energy, aerospace, and more.
- The trend in these industries is a growing reliance on automation and control systems to improve efficiency, productivity, quality, and safety in manufacturing and industrial processes.

Lead Sources	Approximate Project Value	Days to Win
Distributor Partnership, Inbound, Tradeshow, Joint Calls	\$10,000	Up to 150 Days

GracePorts® vs Other Panel Interface Connectors

Company	Offering	Product Line Weaknesses	UL Listed	IP Rating	How To Win
Panduit	Data Access Port	• Fewer data and power options • 3 - 4 weeks for customization, likely a minimum order quantity • Round housings only	Yes	IP65/ IP66	• Fast delivery of any combination • No minimum for customization, including customer info. on the label
Mencom (Automation Direct)	Panel Interface Connector	• Longer customization lead-time • No round housings	Yes	IP65	• Fast delivery of any combination • No minimum for customization, including customer info. on the label
Murrelektronik	Modlink	• Longer customization lead-time • No round housings	Yes	IP65	• Fast delivery of any combination • No minimum for customization, including customer info. on the label
Phoenix Contact	HEAVYPORT	• UL listing not specified • Lead-times and MOQ for customization • No round housings	No	IP65	• Fast delivery of any combination • No minimum for customization, including customer info. on the label
Weidmuller	FrontCom Vario FrontCom Micro	• UL listing not specified • Longer lead times than Grace and likely larger MOQs for customization • No round housings	No	IP65	• Fast delivery of any combination • No minimum for customization, including customer info. on the label