
Based in Milan, Italy, Blink Marine was founded in 2001 as a company specialized in the production of onboard instrumentation for seafaring vessels. Starting in 2009, thanks to implementation of CAN bus protocols on all its products, Blink Marine began serving the industrial automotive sector as well.

Today, the onboard electronics sector enjoys one of the highest innovation rates in the world, with constant contributions from both builders and prep crews for vehicles and seafaring vessels. Digital keypads amount to a radical transformation of the dashboard, making the operator’s control panel more ordered and essential, and helping users manage complex actions in a simple, straightforward manner.

Blink Marine’s approach to the sector focuses on maximum flexibility and reliability. Blink Marine keypads are highly customizable, allowing the company to respond to a wide range of different needs that are often the result of unique client requests.
Powertrack is a vehicle display controller with rotary encoder several CAN bus protocol. The PowerTrack keypad and its rotary encoder were both designed by Blink Marine as a natural evolution of the Powerkey 1000, from which it has inherited the same attractive and compact visual design.

Together with the six quick-pick keys, the addition of a rotary pushbutton knob makes it possible to manage complex scroll functions on the display, and can interface with onboard systems thanks to CANbus protocols. PowerTrack boasts numerous personalization options, thanks in part to the flexible management of multicolor LEDs.
ERGONOMIC
PowerTrack was designed to guarantee a comfortable grip in any given situation thanks to a rubber insert that wraps all the way around the knob. Together with the six quick-pick keys, the addition of a rotary pushbutton knob makes it possible to manage complex scroll functions on the display.

CAN BUS PROTOCOL
Fully compliant with Device Profile 401d, PowerTrack can interface with onboard systems thanks to CANbus protocols.

CUSTOMIZABLE
PowerTrack boasts numerous personalization options, thanks in part to the flexible management of multicolor LEDs. The intensity of the LEDs can be adjusted, whilst any LED indicator – whether fixed or blinking – can be personalized according to color preference. Backlighting for the keypad is also adjustable.

STANDARD FEATURES
- Custom laser etched icons
- High intensity led status indicators
- Multicolor LED backlight
- CANopen compliant
- Event status transmission
- Periodic status transmission
- Green/red LED indicators
- Compact design
- Vertical or horizontal mount
- Protected from inverted polarity
- Encoder with pushbutton
- Periodic Heartbeat
- LED acknowledgement

OPTIONAL FEATURES
- Blue/orange LED indicators
- J1939 Communication
- RS485 Communication

ELECTRICAL
- Supply Voltage: 12-24Vdc Nominal (8-32VDC)
- Standby Current: <50 mA
- Communication BUS: CANopen, J1939

MECHANICAL
- Connector: Deutsch DT04-4P
- Switch Life: 3 million operations minimum
- Encoder pushbutton life: 1 million operations minimum
- Encoder rotation life: 100,000 cycles minimum
- Mounting Studs: #10-32 CDA-510 phosphor bronze, electroplated right tin
- Keypad: Silicone rubber with polyurethane hardcoat
- PC Board: 1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
- Operating Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +85°C
- UV Protection: UVB 400 hours
- Salt Spray: Per ASTMB117
- Chemical Resistance: Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner

Ingress protection: IP54

MARKETS
- Industrial
- Heavy Duty/Specialty Vehicles
- Marine
- First Responders
- Agriculture
- Electric Cars

SPCIFICATIONS FOR STANDAD KEYPAD

POWERTRACK

32.40 mm - 1.27''
13.40 mm - 0.52''
135.00 mm - 5.31''
Keypads in the PRO series are the only ones currently on the market that boast keys with removable inserts. The symbol on each PowerKey PRO is laser-etched on a plastic insert that can easily be removed and replaced without needing to take apart the rest of the keypad or cockpit.
BUILT TOUGH
Designed for even the harshest conditions, the PowerKey PRO withstands the cleaning force of pressure washers and holds on IP67 rating, making it immune to waste, mud, salt, sand, oil, chemicals or anything else thrown at it.

CAN BUS PROTOCOL
Fully compliant with Device Profile 401d. Assign any valid CAN address to the keypad while also assigning the same or a different RS485 address. Communicate on either BUS simultaneously.

CUSTOMIZABLE INSERT
The replacement system for individual inserts makes modifying the keypad layout simpler and more economical. Hundreds of different pre-existing keys can be viewed, and it is possible to order customized inserts.

EASY TO READ
With simple icons, large buttons and bright LED indicators, the PowerKey PRO canbus keypad is easy to read in any situation. The multi-colored LED status rings also allow you to set specific colors for specific functions.

STANDARD FEATURES
• Reconfigurable keys
• Relegendable buttons
• LED state & status configurable
• Vertical or horizontal mount
• Push or front mount
• LED backlight icons
• Full color LED indicators
• 256 step brightness control for each color
• Significant power reductions, PKU2200 consumes with all LED’s active 250mA@12v
• Overlay
• Laser etch
• Pad print
•Hundreds of stock icons to choose from

OPTIONAL FEATURES
• Programmer’s manual available to help support plug-and-play reconfigurability
• Available in fixed legends

PowerKey PRO 2200 and 2400 [respectively 4 and 8 keys] offer large keys (24mm), enabling the user to read quickly and apply secure pressure even when using the keypad while wearing gloves.

PowerKey PRO 2200
- Supply Voltage: 12-24Vdc Nominal (8-32VDC)
- Standby Current: <50 mA
- Communication BUS: CANopen, J1939
- Connector: Deutsch DT04-4P, Molex 19418-0004, Micro-C and more
- Switch Life: 3 million operations minimum
- Mechanical Shock: X, Y, Z 50Gs 11ms
- Vibration: X, Y, Z 10 - 150Hz 0.15mm amp
- Mounting Studs: #10-32 CDA-510 phosphor bronze, electroplated bright tin
- Keypad: Silicone rubber with polyurethane hardcoat
- PC Board: 1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Thermal Shock: -20°C to 70°C / 4°C / Min
- Humidity: 0 to 95% (no condensation)
- UV Protection: UVB 400 hours
- ingress protection Rating: IP68

PowerKey PRO 2400
- Supply Voltage: 12-24Vdc Nominal (8-32VDC)
- Standby Current: <50 mA
- Communication BUS: CANopen, J1939
- Connector: Deutsch DT04-4P, Molex 19418-0004, Micro-C and more
- Switch Life: 3 million operations minimum
- Mechanical Shock: X, Y, Z 50Gs 11ms
- Vibration: X, Y, Z 10 - 150Hz 0.15mm amp
- Mounting Studs: #10-32 U3A05/10 phosphor bronze, electroplated bright tin
- Keypad: Silicone rubber with polyurethane hardcoat
- PC Board: 1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Thermal Shock: -20°C to 70°C / 4°C / Min
- Humidity: 0 to 95% (no condensation)
- UV Protection: UVB 400 hours
- ingress protection Rating: IP68

ELECTRICAL
- Supply Voltage: 12-24Vdc Nominal (8-32VDC)
- Standby Current: <50 mA
- Communication BUS: CANopen, J1939
- Connector: Deutsch DT04-4P, Molex 19418-0004, Micro-C and more
- Switch Life: 3 million operations minimum
- Mechanical Shock: X, Y, Z 50Gs 11ms
- Vibration: X, Y, Z 10 - 150Hz 0.15mm amp
- Mounting Studs: #10-32 U3A05/10 phosphor bronze, electroplated bright tin
- Keypad: Silicone rubber with polyurethane hardcoat
- PC Board: 1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Thermal Shock: -20°C to 70°C / 4°C / Min
- Humidity: 0 to 95% (no condensation)
- UV Protection: UVB 400 hours
- ingress protection Rating: IP68

SPECIFICATIONS FOR STANDARDS KEYPADS

- Design Your Own Prototype Online
- Shop Your Keypad Online

www.blinkmarine.com
PowerKey PRO 2300 and 2600 (respectively 6 and 12 keys) are high-density keypads with small keys (15mm); compact and rational, they guarantee maximum control with minimum size.

**POWERKEY PRO PKP-2300-SI**

- **ELECTRICAL**
  - Supply Voltage: 12-24Vdc Nominal (8-32VDC)
  - Standby Current: <50 mA
  - Communication BUS: RS485, CANopen, J1939

- **MECHANICAL**
  - Connector: Deutsch DT04-4P
  - Switch Life: 3 million operation minimum
  - Mounting Studs: #10-32 CDA-510 phosphor bronze, electroplated bright tin
  - Keypad: Silicone rubber with polyurethane hardcoat
  - PC Board: 1.6mm thick, Nema Grade FR-4, double clad with 1oz copper
  - Operating Temperature: -40°C to +70°C
  - Storage Temperature: -40°C to +85°C
  - UV Protection: UVB 400 hours
  - Salt Spray: Per ASTMB117
  - Chemical Resistance: Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid
  - Ingress protection Rating: IP68/NEMA6

**POWERKEY PRO PKP-2400-SI**

- **ELECTRICAL**
  - Supply Voltage: 12-24Vdc Nominal (8-32VDC)
  - Standby Current: <50 mA
  - Communication BUS: RS485, CANopen, J1939

- **MECHANICAL**
  - Connector: Deutsch DT04-4P, Molex 104118-0004, Mini-C and more
  - Switch Life: 3 million operation minimum
  - Mounting Studs: #10-32 CDA-510 phosphor bronze, electroplated bright tin
  - Keypad: Silicone rubber with polyurethane hardcoat
  - PC Board: 1.6mm thick, Nema Grade FR-4, double clad with 1oz copper
  - Operating Temperature: -40°C to +50°C
  - Storage Temperature: -40°C to +85°C
  - Thermal Shock: -40°C to +72°C @ 4°C/Min
  - Humidity: 0 to 98% (no condensation)
  - UV Protection: UVB 400 hours
  - Salt Spray: Per ASTM617
  - Chemical Resistance: Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid

**POWERKEY PRO 2600**

- **ELECTRICAL**
  - Supply Voltage: 12-24Vdc Nominal (8-32VDC)
  - Standby Current: <50 mA
  - Communication BUS: RS485, J1939

- **MECHANICAL**
  - Connector: Deutsch DT04-4P, Molex 104118-0004, Mini-C and more
  - Switch Life: 3 million operation minimum
  - Mounting Studs: #10-32 CDA-510 phosphor bronze, electroplated bright tin
  - Keypad: Silicone rubber with polyurethane hardcoat
  - PC Board: 1.6mm thick, Nema Grade FR-4, double clad with 1oz copper
  - Operating Temperature: -40°C to +50°C
  - Storage Temperature: -40°C to +85°C
  - Thermal Shock: -40°C to +72°C @ 4°C/Min
  - Humidity: 0 to 98% (no condensation)
  - UV Protection: UVB 400 hours
  - Salt Spray: Per ASTM617
  - Chemical Resistance: Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid
  - Ingress protection Rating: IP68/NEMA6
CUSTOMIZE YOUR ICONS

Choose the icons you want for your keypad. You can search and select the “solid black” icon if you want to leave a position empty, or you can request a “custom” icon.

One of the most important aspects of the CAN keypads produced by Blink Marine is its ease-of-use for people who have to work with it, in other words for those who use the keypad on a daily basis, often in an intensive manner, whether for work or in their free time.

In order to make its keypads easier to use, Blink Marine carefully oversees even the smallest details of its product design, crafting them to be not only resistant but also intuitive and simple to understand.

The choice and design of the icons that designate the functions of each individual key are one of the most crucial aspects of the design for the efficiency and ease-of-use of CAN Blink Marine keypads.

The keys must not only be easy to recognize, but also integrate fully with the rest of the control panel, and eventually with other HMIs present onboard.

The careful attention the company pays to this aspect is one of the reasons Blink Marine keypads are so successful.
Blink PowerKey CAN keypad series combines the styling and compact package size of the PowerKey family with the software features and network capabilities of Blink popular PowerKey Pro family.

The PowerKey CAN keypad is the perfect lightweight and flexible solution for any application.
CUSTOMIZABLE RUBBER
Number of LEDs, buttons, company logo, all at one in keypad Powerkey can be adapted to your needs and your activities.

CAN BUS PROTOCOL
Fully compliant with Device Profile 401d.

RUGGED
Ready to challenge even the toughest conditions. With an ingress protection rate IP67, the Powerkey keypad is more resilient than you image in front of water, dust, salt but also the sun.

EASY TO MOUNT
Perfect anywhere you want to have it, the CAN bus keypad Powerkey can be installed the way you want and gives you an absolute control of your vehicle in a few centimeters.

STANDARD FEATURES
• LED state & status configurable
• Vertical or horizontal mount
• Flash or front mount
• LED backlit icons
• Multicolor indicator rings
• Overlay
• Laser etched rubber
• Pad prints for logo
• ON/OFF, momentary, toggle & scroll

OPTIONAL FEATURES
• Programmer’s manual available to help support plug-and-play reconfigurability

MARKET
• Industrial
• Heavy Duty/Specialty Vehicle
• Outdoor equipment
• Marine
• First Responders
• Material Handling

ELECTRICAL 1000
Supply Voltage: 12-24Vdc Nominal [8-32VDC]
Communication BUS: CANopen, J1939

MECHANICAL
Connector: Deutsch DT04-4P
Switch Life: 3 million operations
Mechanical Shock: X, Y, Z 50Gs 11ms
Thermal Shock: -40°C to +72°C @ 2°C/Min
UV Protection: UVB 400 hours
Chemical Resistance: Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner
Ingress Protection Rating: IP67/NEMA6

SPECIFICATIONS FOR STANDARD KEYPADS

<table>
<thead>
<tr>
<th>KEYPADS</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10 Keys</td>
<td>127.00 mm - 5.00&quot;</td>
</tr>
<tr>
<td>8 Keys</td>
<td>110.00 mm - 4.33&quot;</td>
</tr>
<tr>
<td>6 Keys</td>
<td>96.00 mm - 3.8&quot;</td>
</tr>
</tbody>
</table>

ELECTRICAL 1400
Supply Voltage: 12-24Vdc Nominal [8-32VDC]
Communication BUS: CANopen, J1939

MECHANICAL
Connector: Deutsch DT04-4P
Switch Life: 3 million operations
Mechanical Shock: X, Y, Z 50Gs 11ms
Thermal Shock: -40°C to +72°C @ 2°C/Min
UV Protection: UVB 400 hours
Chemical Resistance: Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner
Ingress Protection Rating: IP67/NEMA6

SPECIFICATIONS FOR STANDARD KEYPADS

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<tr>
<td>14 Keys</td>
<td>175.00 mm - 6.90&quot;</td>
</tr>
<tr>
<td>10 Keys</td>
<td>150.00 mm - 5.91&quot;</td>
</tr>
<tr>
<td>12 Keys</td>
<td>125.00 mm - 4.92&quot;</td>
</tr>
<tr>
<td>6 Keys</td>
<td>110.00 mm - 4.33&quot;</td>
</tr>
</tbody>
</table>
Keybox is a CAN bus relay module for electric loads designed by Blink Marine specifically for use in vehicles and boats. It is a small device which, once it’s connected to various utilities (lights, electric motors, bilge pumps, mechanical arms), allows you to use Blink Marine keypads to control them.
THIRTEEN CONTACTS
Keybox comes equipped with up to 13 contacts, to which any electric device can be connected. It’s also connected to one or more Blink Marine keypads via a communications BUS.

SMART AND SMALL
Keybox gives you all the innovation of a Blink Marine keypad without the cost and complexity of a digital system.

VERSATILE
Keybox is an extremely versatile CAN bus relay module. It was designed for producers, outfitters and anyone who owns a boat or vehicle that they’d like to make more innovative without spending an arm and a leg! But it can also be offered to anyone who simply wants to substitute old onboard switches in his vehicle or boat with a Blink Marine keypad.

3 MODELS AVAILABLE
• KB-12V-05A 13 relays [12 for CAN version] 12V 5A
• KB-12V-10A 13 relays [12 for CAN version] 12V 10A
• KB-24V-05A 13 relays [12 for CAN version] 24V 5A

ELECTRICAL FEATURES
• 13 switched circuits that include:
  • Momentary, toggle, and time-out functions
  • Circuits rated up to 13 amperes at 12V and 5 amperes at 24V maximum continuous load (resistive)
  • Isolated relay outputs
  • Fuse protected circuits
  • Input undervoltage lock down and overvoltage protection

ENVIRONMENTAL FEATURES
• Operating ambient temperature: -20°C to +70°C
• Storage ambient temperature: -40°C to +85°C
• Humidity: 0 to 98% (non-condensing)
• IP67 enclosure

SPECIAL FEATURES
• CANbus compatible (CANopen)
• Configurator tool available for field programmability of electrical functions

3 MODELS AVAILABLE
• KB-12V-05A 13 relays [12 for CAN version] 12V 5A
• KB-12V-10A 13 relays [12 for CAN version] 12V 10A
• KB-24V-05A 13 relays [12 for CAN version] 24V 5A

ELECTRICAL FEATURES
• 13 switched circuits that include:
  • Momentary, toggle, and time-out functions
  • Circuits rated up to 13 amperes at 12V and 5 amperes at 24V maximum continuous load (resistive)
  • Isolated relay outputs
  • Fuse protected circuits
  • Input undervoltage lock down and overvoltage protection

MECHANICAL FEATURES
• Connector Cinch 581-01-30-064
• Mating connector  Cinch 581-01-30-029 with 4250000873
• Housing / cover 33% Glass Filled Polymer
• PC board 1.6mm thick, Nema Grade FR-4, Double clad with 2oz copper

ENVIRONMENTAL FEATURES
• Operating ambient temperature: -20°C to +70°C
• Storage ambient temperature: -40°C to +85°C
• Humidity: 0 to 98% (non-condensing)
• IP67 enclosure

FEATURES
• Circuits 13
• Dimensions: 135.4 x 130.3 x 42.3
• Input voltage & load size
• Analog sensor
• Sense pins inputs
• Temperature sensor pins
• Dimming, WVM Features
• External status communication on the bus

SPECIAL FEATURES
• CANbus compatible (CANopen)
• Configurator tool available for field programmability of electrical functions

MARKETS
• Marine
• Outdoor equipment
• Heavy Duty/Specialty Vehicles
• Material Handling
• Agriculture
• Electric Cars
The PC10 Solid State power management enclosure is a fundamental building block of Blink Marine switching solutions aimed at meeting the tough demand of today’s marine and transportation markets.
ELECTRICAL FEATURES
- 12V or 24V nominal input voltage
- 100 Ampere total PME input current carrying capability at 12 volts
- 12 switched circuits that include:
  - Momentary, toggle, and time-out functions
  - Pulse-width modulation of output voltage for dimming capability
- 3 circuits rated up to 20A maximum continuous load, 9 circuits rated up to 15A
- 2 complete H-Bridge circuits for driving reversible motors
- Parallellable output increases current rating
- An electronic circuit breaker protects every circuit. The current rating for each circuit can be set independently.
- Remote reset of any output circuitry fault through keypad
- Input undervoltage lock down and overvoltage protection

SPECIAL FEATURES
- CANbus compatible (CANopen/J1939 compliance available)
- Field programmability of electrical functions and current limit trip points available to authorized OEMs and Value-Added Resellers (VARs)
- 4-circuit bypass for essential functions
- Optional N.O. relay clean contact

MARKETS
- Marine
- Outdoor equipment
- Heavy Duty/Specialty Vehicles
- Material Handling
- Agriculture
- Electric Cars

PC10

ELECTRICAL
- Supply voltage: 12V and 24V Nominal Voltage (8-32VDC)
- Standby current: <30mA per PME
- Load current: Max 20A per output
- Input current: 100A max
- Communication bus: RS-485 between keypad and PME
- Circuit protection: Electronic overcurrent short circuit protection
- Automotive mini blade fuse

MECHANICAL
- Connectors: Molex MX150L series
- Housing: ALLOY 6060 and ZA4C1
- Seal: TPV 8211-75
- Power stud: 3/8-16, Copper 110, Locknut Zinc-plated steel
- PC board: 1.6mm thick, Nema Grade FR-4, Double clad with 3oz copper

ENVIRONMENTAL
- Operating temperature: -20ºC to +85ºC
- Storage temperature: -40ºC to +85ºC
- Humidity: 0 to 98% (no condensation)
- Ingress Protection Rating: IP65

FEATURES
- Circuits: 12
  - Remote current trip reset: Standard
  - System reset: Optional
  - Status indicator: Standard
  - By-pass: Optional
  - Door lock sense & lock down: Optional
  - H-Bridge capability: Optional
  - Levels sense pins: Optional
  - Dimming/PWM Features: Available on 10 outputs
  - Circuit status monitoring: Optional
  - Field reprogrammable: Optional
  - External status comm. on the bus: Optional
  - N.O. relay contact: Optional

PC20

ELECTRICAL
- Supply voltage: 12V and 24V Nominal Voltage (8-32VDC)
- Standby current: <30mA per PME
- Load current: Max 20A per output
- Input current: 150A max
- Communication bus: RS-485 between keypad and PME
- Circuit protection: Electronic overcurrent short circuit protection
- Automotive mini blade fuse

MECHANICAL
- Connectors: Molex MX150L series
- Housing: ALLOY 6060 and ZA4C1
- Seal: TPV 8211-75
- Power stud: 3/8-16, Copper 110, Locknut Zinc-plated steel
- PC board: 1.6mm thick, Nema Grade FR-4, Double clad with 3oz copper

ENVIRONMENTAL
- Operating temperature: -20ºC to +85ºC
- Storage temperature: -40ºC to +85ºC
- Humidity: 0 to 98% (no condensation)
- Ingress Protection Rating: IP65

FEATURES
- Circuits: 22
  - Remote current trip reset: Optional
  - System reset: Standard
  - Status indicator: Optional
  - By-pass: Optional
  - Door lock sense & lock down: Optional
  - H-Bridge capability: Optional
  - Levels sense pins: Optional
  - Dimming/PWM Features: Available on 10 outputs
  - Circuit status monitoring: Optional
  - Field reprogrammable: Optional
  - External status comm. on the bus: Optional
  - N.O. relay contact: Optional