



YOUR FIRST CHOICE FOR DMX AND DALI CONTROL

Benefit from Pharos expertise in dynamic architectural lighting with Pharos Express, the award-winning, cost-effective control solution centred around a single, reliable, set-and-forget controller that's easy to specify and install. The software guides the user, offering curated options for lighting control, scheduling and integration features.

With DMX, DALI and a couple of convenient contact closures and relays all on board, Express Control provides up to 3072 channels and is ideal for architectural lighting that requires the benefits of dynamic lighting for intelligent single-scene-per-space playback.

The free Express Touch mobile app provides auto generated pages of user controls on any smart device over local Wi-Fi. Also available are companion wall-mount touchscreens; the elegant 5" and 8" Express Touch, and completing the range are two accessories: Pharos Repeat which is a convenient DMX splitter for output distribution, and Pharos Switch for PoE networking.

With the reliability you expect from Pharos and our expertise in dynamic lighting in architecture and entertainment: an easy to install, easy to use control solution.

Supported in Pharos Express 2.0 or later.



One Controller

All you need in one stand-alone box. Up to 3072 channels of eDMX, two local DMX ports, a DALI port and two pairs of IO on board with simple networking for programming. All in one compact, DIN rail mount enclosure and optional keyhole hanging, with solid-state hardware for 24/7 operation and reliability.



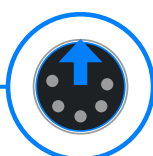
Straightforward installation

Requiring just PoE or conveniently flexible 9-48V DC power range, with install-friendly rising-clamp connectors. Out-of-the-box, the test modes on the rotary dial select the output ports, and the push button allows raising and dimming levels for fixture testing. Test mode and levels can even be maintained indefinitely as working lights before commissioning and programming occur. Rotary dial also provides four programmable override states.



Output

Controllers available in one, two, four and six DMX universe capacities. Two self-healing ports for convenient patching to local DMX512. Pharos Repeat available for additional local DMX distribution. All channels are available over Ethernet distribution via eDMX protocols such as sACN and Art-Net, and via DMX ports on the Pharos RIO G4. DALI port when connected to a powered DALI bus supports control for up to 64 DALI devices.



Easy IO Integration

The two inputs / two outputs provide contact closure to interface with controls such as fire alarm systems and key-switch overrides. Receive DALI messages from other controllers such as wall panels or occupancy sensors.



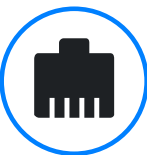
Express Software

The software will guide you through setting up and creating your lighting design, with helpers and clear, easy-to-follow processes. This commissioning application for Windows and macOS gives you just the tools you need, with curated options including familiar calendar-based scheduling and useful integration solutions. Spaces on the canvas simplify managing your installation, fixtures and lighting looks.



Network Connectivity

From a single Ethernet cable direct to a laptop just for programming, or a static, closed network just for your lighting data, to the facility's local IT network for greater connectivity including devices running the Express Touch mobile app, or even the Internet for comprehensive remote management via Pharos Cloud.



Express Touch mobile app

Download the Express Touch mobile app then connect phones and tablets via local Wi-Fi for a free user interface, with automatically generated pages created in Express software.



Remote Management

The control you need in your browser – from anywhere. Express Control can be connected to Pharos Cloud, our secure remote management service. Check controller status, monitor inputs and outputs, activate scenes, schedule events, upload new projects and much more.



Reliability

Made for permanent installation, with installer-friendly connectors and easy DIN rail mounting. Hardware and firmware are self-sufficient, so no PC needs to be left on site. Compact unit designed for 24/7 operation and reliability.





Supported Fixtures

LEDs	LEDs in any colour configuration (RGB, RGBW, RGBA, 8-bit, 16-bit, tuneable white)
Generic	Downlights, spotlights, uplights, etc. via controllable dimmers and relays
DALI	Ballasts are supported, such as single channel, Tc and XY
Multi-parameter	Set static values for position, focus and other extended fixture parameters

Output

DMX512	2 ports (max 512 channels each) ANSI E1.11-2008
RDM	Supports discovery and addressing via Express software
sACN	ANSI E1.31 standard
Art-Net	Art-Net I, Art-Net II and Art-Net 3
KiNET	KiNET V1, V2, V3; PDS/Data Enabler discovery
DALI	Support for single channel, Tc and XY
Simultaneous Capacity	Multiple protocols can be in operation simultaneously Limited by patched channels, not universes used

Interfaces

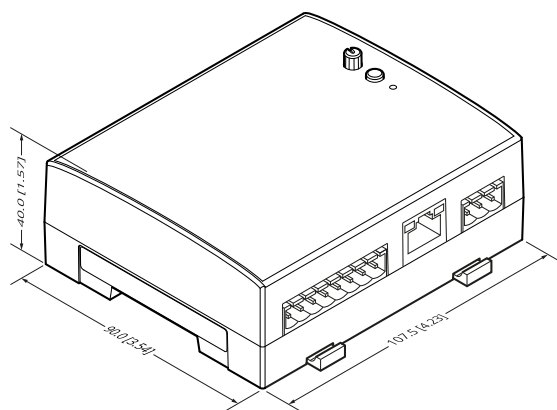
DMX512	Two individually isolated, self-healing DMX ports, RDM compatible *
DALI	Transmit and receive DALI commands * Supports DALI standards: EN 62386-101:2009, EN 62386-102:2009, EN 62386-202:2009, EN 62386-209:2011 A separate DALI bus power supply is required
Inputs	Two inputs, individually selectable operating mode for contact closure, digital or analogue input *
Relay Outs	Two individually isolated relay outputs *
Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Dual IP address for eDMX
Rotary Dial	For test setups and programmed override states
Push Button	For test mode intensity
Touchscreen	Auto-generated interfaces via free mobile app over local Wi-Fi (access point required) and via Express Touch 5 and Touch 8 PoE wall stations
HTTP API	Control over most aspects of the controller's project from any device that can send HTTP requests
Integrations	Simple UDP Ethernet API, DALI commands, MQTT, Ethernet Output on Scene start

Order Code & Variants

XPC 1	Express Control 1 (Lighting controller 512 channels, 2 local DMX ports, eDMX, DALI, IO)
XPC 2	Express Control 2 (Lighting controller 1,024 channels, 2 local DMX ports, eDMX, DALI, IO)
XPC 4	Express Control 4 (Lighting controller 2,048 channels, 2 local DMX ports, eDMX, DALI, IO)
XPC 6	Express Control 6 (Lighting controller 3,072 channels, 2 local DMX ports, eDMX, DALI, IO)

Specifications

Power	9-48V DC * or PoE (IEEE802.3af, Class 2) 4W typical
Configuration	Pharos Express 2.0 or later
Data Storage	Removable MicroSD card (provided)
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress	IP40
Physical	6 unit wide DIN rail mounting enclosure (35/7.5 rail) Incorporated keyhole hangers 10.8 x 9 x 4 cm (4.2 x 3.5 x 1.6 in) 0.2 kg (0.5 lbs)
Shipping	19.5 x 15 x 7.5 cm (8 x 6 x 3 in) 0.35kg (0.8lbs)
Recovery	Hardware watchdog and recessed reset button



Warranty & Certifications

Designed and manufactured in the UK, with a 5-year warranty, where quality and reliability are our top priority.

Warranty 5 years

Certifications CE compliant, UKCA compliant, UL/cUL listed, may be used as part of a California Title 24 compliant lighting control system.



* Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

XPC26002



YOUR FIRST CHOICE FOR DMX AND DALI CONTROL

A stunningly elegant wall station with a seamless, uninterrupted glass front plate, providing a beautiful interface if your project requires user interaction. The 5" touchscreen receives automatically generated pages via Express Control, based on programming in Express software. Easily control your lighting by activating scenes and adjusting intensity for each Space.

With single cable installation, Express Touch 5 is a Power-over-Ethernet device. Included is a Universal Mounting Plate which is compatible with world-wide back boxes and boasts a secure and ingenious fitting mechanism.

Supported in Pharos Express 2.0 or later.



Touch Interface

Touch 5 has a vivid colour 5" display with a high resolution of 800x480. The capacitive touchscreen makes navigating your project's controls appealing and intuitive. It's quick and easy to select your space and activate presets, manually override intensity and even use a colour picker to personalise your lighting. Touch 5 puts control at your fingertips.



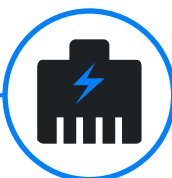
Straightforward installation

With a new, innovative wall-mounting system, the Universal Mounting Plate can be fitted to a wide range of regulation backboxes, including UK, US and EU. The Touch 5 fits to the mounting plate via a bayonet twist system which is not immediately obvious to an observer. This keeps it firmly fastened with a tool-free installation, and the MicroSD card remains out of reach whilst installed.



Power-over-Ethernet

As a Power-over-Ethernet (PoE) device, the Touch 5 can be placed at any remote location and only needs a single Ethernet cable that provides both power and data. Pharos Switch is a four-port PoE switch which supports up to four devices, such as a combination of Express Control, Express Touch and Pharos RIOs.



Controller

The Touch 5 requires a Pharos Express Control, and links to it using standard protocols over an Ethernet network.



Wherever they're needed

Express Control can support up to 32 Express Touch devices. Pages are generated relating to the Space you assign to your Touch 5 – giving you control over just one room, or the whole project.



Express Software

The software will guide you through setting up and creating your lighting design, with helpers and clear, easy to follow processes. Add Stations to Spaces and choose a theme to suit the location, then let the software do the rest – generating the pages and controls you want – with preset buttons, colour pickers and intensity sliders.



Reliability

Made for permanent installation and designed for 24/7 operation and reliability. Hardware and firmware are self-sufficient, so no PC needs to be left on site.





Capabilities

Orientation	Landscape and portrait
Layouts	Automatically generated page layouts to suite each project's settings from specific project Spaces
Themes	Multiple themes to choose from for automatically generated pages, controls, and navigation
Skins	Within each theme there are different skins to choose from to fine tune appearance
Secure access	Keypad option for PIN-code entry with automatic lock
Commissioning	Interface provided from linked Express Control, commission with Pharos Express
Project Management	Optionally enable interface elements to manage project tags

Interfaces

Ethernet	Static IP or DHCP
Touchscreen	5" capacitive touch; 800×480 24bpp; 650 cd/m2

Order Code & Variants

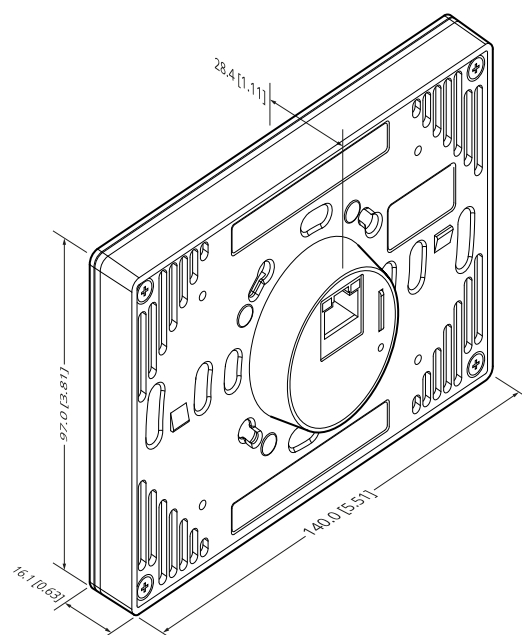
XPT 5 B	Express Touch 5 Black (5" wall mount touchscreen interface)
XPT 5 W	Express Touch 5 White (5" wall mount touchscreen interface)*
Colour Information	
Signal White	Bayblend T65XF (UL94 HB) RAL 9003 signal white
Jet Black	Bayblend T65XF (UL94 HB) RAL 9005 jet black

Pharos Universal Mounting Plate 5" included

Pharos Express Control required

Specifications

Power	PoE (IEEE802.3af, Class 0) 7W typical
Required	Pharos Express Control
Configuration	Pharos Express 2.0 or later
Data Storage	Removable MicroSD Card (supplied)
Recovery	Hardware watchdog and recessed reset button
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress	IP40
Physical	Wall mounted, partly recessed with a custom mounting plate that supports UK 1 & 2-gang 35mm, EU 35mm or US 2.5" backbox (mounting plate included) 14 x 9.7 x 2.8 cm (5.5 x 3.8 x 1.1 in) 0.25 kg (0.6 lbs) (ex. mounting plate)
Shipping	19.5 x 15 x 7.5 cm (8 x 6 x 3 in) 0.5 kg (1.1 lbs)
Reset	Recessed reset button



Warranty & Certifications

Designed and manufactured in the UK, with a 5-year warranty, where quality and reliability are our top priority.

Warranty 5 years

Certifications CE compliant, UKCA compliant, UL/cUL listed.



* Default colour shipped if unspecified

XPT526001



YOUR FIRST CHOICE FOR DMX AND DALI CONTROL

A stunningly elegant wall station with a seamless, uninterrupted glass front plate, providing a beautiful interface if your project requires user interaction. The 8" touchscreen receives automatically generated pages via Express Control, based on programming in Express software. Easily control your lighting by activating scenes and adjusting intensity for each Space.

With single cable installation, Express Touch 8 is a Power-over-Ethernet device. Included is a Universal Mounting Plate which is compatible with world-wide back boxes and boasts a secure and ingenious fitting mechanism.

Supported in Pharos Express 2.0 or later.



Touch Interface

Touch 8 has a vivid colour 8" display with a high resolution of 1024x768. The capacitive touchscreen makes navigating your project's controls appealing and intuitive. It's quick and easy to select your space and activate presets, manually override intensity and even use a colour picker to personalise your lighting. Touch 8 puts control at your fingertips.



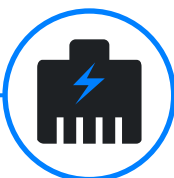
Straightforward installation

With a new, innovative wall-mounting system, the Universal Mounting Plate can be fitted to a wide range of regulation backboxes, including UK, US and EU. The Touch 8 fits to the mounting plate via a bayonet twist system which is not immediately obvious to an observer. This keeps it firmly fastened with a tool-free installation, and the MicroSD card remains out of reach whilst installed.



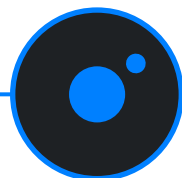
Power-over-Ethernet

As a Power-over-Ethernet (PoE) device, the Touch 8 can be placed at any remote location and only needs a single Ethernet cable that provides both power and data. Pharos Switch is a four-port PoE switch which supports up to four devices, such as a combination of Express Control, Express Touch and Pharos RIOs.



Controller

The Touch 8 requires a Pharos Express Control, and links to it using standard protocols over an Ethernet network.



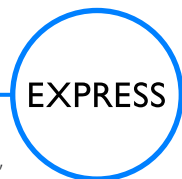
Wherever they're needed

Express Control can support up to 32 Express Touch devices. Pages are generated relating to the Space you assign to your Touch 8 – giving you control over just one room, or the whole project.



Express Software

The software will guide you through setting up and creating your lighting design, with helpers and clear, easy to follow processes. Add Stations to Spaces and choose a theme to suit the location, then let the software do the rest – generating the pages and controls you want – with preset buttons, colour pickers and intensity sliders.



Reliability

Made for permanent installation and designed for 24/7 operation and reliability. Hardware and firmware are self-sufficient, so no PC needs to be left on site.





Capabilities

Orientation	Landscape and portrait
Layouts	Automatically generated page layouts to suite each project's settings from specific project Spaces
Themes	Multiple themes to choose from for automatically generated pages, controls, and navigation
Skins	Within each theme there are different skins to choose from to fine tune appearance
Secure access	Keypad option for PIN-code entry with automatic lock
Commissioning	Interface provided from linked Express Control, commission with Pharos Express
Project Management	Optionally enable interface elements to manage project tags

Interfaces

Ethernet	Static IP or DHCP
Touchscreen	8" capacitive touch; 1024x768 24bpp; 500 cd/m2

Order Code & Variants

XPT 8 B	Express Touch 8 Black (8" wall mount touchscreen interface)
XPT 8 W	Express Touch 8 White (8" wall mount touchscreen interface)*

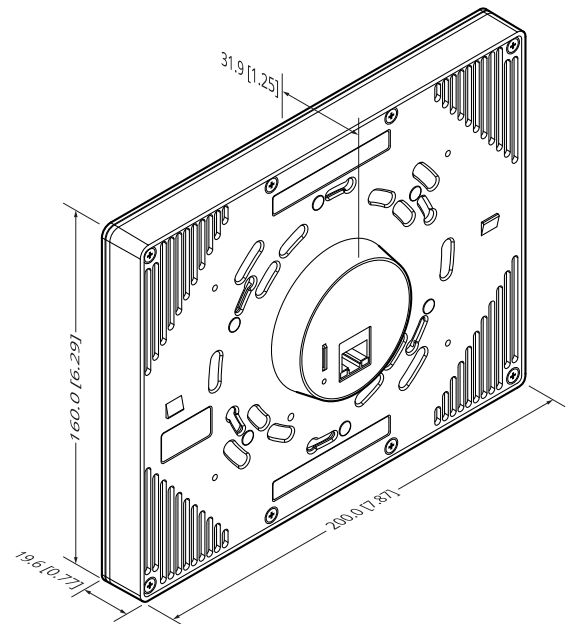
Colour Information	
Signal White	Bayblend T65XF (UL94 HB) RAL 9003 signal white
Jet Black	Bayblend T65XF (UL94 HB) RAL 9005 jet black

Pharos Universal Mounting Plate 8" included

Pharos Express Control required

Specifications

Power	PoE (IEEE802.3af, Class 0), 10W typical
Required	Pharos Express Control
Configuration	Pharos Express 2.0 or later
Data Storage	Removable MicroSD Card (supplied)
Recovery	Hardware watchdog and recessed reset button
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress	IP40
Physical	Wall mounted, partly recessed with a custom mounting plate that supports UK & EU 2-gang 35mm, or US 2-gang and 3-gang 2.5" backbox (mounting plate included) 20 x 16 x 3.2 cm (7.9 x 6.3 x 1.3 in) 0.7 kg (1.6 lbs) (ex. mounting plate)
Shipping	32 x 24 x 4.5 cm (12.6 x 9.4 x 1.7 in) 1.1 kg (2.5 lbs)
Reset	Recessed reset button



Warranty & Certifications

Designed and manufactured in the UK, with a 5-year warranty, where quality and reliability are our top priority.

Warranty 5 years

Certifications CE compliant, UKCA compliant, UL/cUL listed.



* Default colour shipped if unspecified

XPT826001

Remote DALI 4-Port

The Pharos RIO D4 (Remote DALI 4-Port) is a remote input/output device that provides a convenient and scalable way to control DALI fixtures and ballasts from Pharos controllers. Each RIO D4 supports four DALI buses, which can be used as outputs for control and for receiving DALI commands. Each configured RIO D4 port should be connected directly to your powered DALI buses. Compact plastic enclosure with installer-friendly connectors, DIN-rail mount and PoE for deployment where it is needed, the RIO D4 is connected to a Pharos controller over an Ethernet network.

Supported in Pharos Designer 2.15.1 or later.
Supported in Pharos Express 2.0 or later.



RIO D4 Features



DALI Control

Each port on the RIO D4 can control up to 64 DALI devices, with support for commissioning with DALI discovery and configuration commands. Multiple RIO D4 units can be used together as part of a single Pharos system to provide distributed DALI control over an Ethernet network.



DALI Commands

The RIO D4 can also integrate with an existing DALI installation by listening in to DALI commands sent by another control system or a DALI wall panel to activate lighting changes on a Pharos controller. RIO D4 also responds to DALI button events, illuminance and occupancy sensor changes.



Scalable

Multiple Remote Devices can be combined on the same network to build the ideal system for your installation. System totals, maximum devices and maximum DALI interfaces assigned to a controller depends on controller type.



Power-over-Ethernet

As a Power-over-Ethernet (PoE) device, the RIO D4 can be placed at any remote location and only needs a single Ethernet cable that provides both power and data.



Commissioning Software

Programmed and configured using Pharos software – available free for Windows or macOS – with upload over Ethernet.



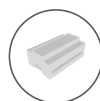
Reliable

Solid-state design for 24/7 operation and reliability.



Installer Friendly

Made for permanent installation, with installer-friendly 0.200" (5.08mm) plug-in rising clamp terminals, a compact, plastic enclosure and easy DIN rail mounting. Includes a convenient thumb wheel for easy addressing and access to built-in test programs.



Network

Works with Pharos controllers and links using standard protocols over an Ethernet network.



Capabilities

DALI Control	Control for up to 64 DALI devices per port including device discovery and configuration
DALI Receive	Receive DALI messages from other controllers such as wall panels or occupancy sensors
Emergency Lighting	(Designer only) Schedule automatic Function and Duration tests; automatic querying for battery level and lamp hours; test result and error reporting web page
Bus Power Detection	(Designer only) Detect and report bus power status

Interfaces

Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Power-over-Ethernet (PoE)
DALI	Ports can transmit and receive DALI commands* Supports DALI standards: EN 62386-101:2009, EN 62386-102:2009, EN 62386-202:2009, EN 62386-209:2011

System Limits (Designer)

Remote Device system limit count includes all RIO, EDN, TPS and BPS in project.

In Project	Maximum 200 remote devices across multiple controllers in a single Pharos Designer project.
Per Controller	Maximum remote device limits assigned to controllers depend on controller type: 64 for each LPC, TPC 100 for each LPC X, VLC
DALI Interface per Controller	Maximum total configured DALI ports assigned to controllers depends on controller type: 16 for each LPC 1 and TPC 32 for each LPC 2 64 for each LPC 4 100 for each LPC X 100 for each VLC (for triggering only)

System Limits (Express)

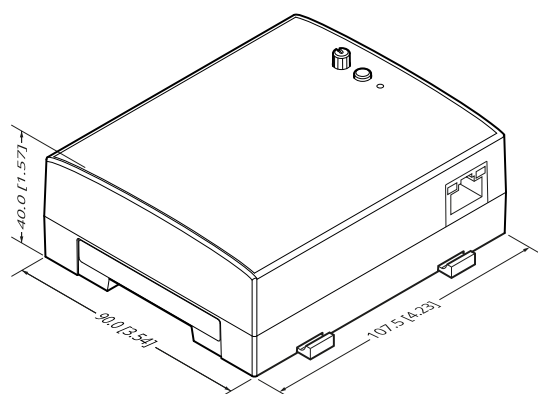
An Express system comprises one Express Control and optional devices.

In Project	Maximum four RIO D4 assigned to an Express Control.
-------------------	---

*Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

Specifications

Power	PoE (IEEE802.3af, Class 2), 7W max
Required	Any Pharos Controller, DALI power supply per port
Configuration	Pharos Designer 2.15.1 or later Pharos Express 2.0 or later
Addressing	By rotary selector switch
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress	IP40
Physical	6 unit wide DIN rail mounting enclosure (35/7.5 rail) 10.8 x 9 x 4 cm (4.2 x 3.5 x 1.6 in) 0.2 kg (0.5 lbs)
Shipping	19.5 x 15 x 7.5 cm (8 x 6 x 3 in) 0.4 kg (0.9 lbs)
Recovery	Hardware watchdog and recessed reset button



Order Code & Variants

RIO D4	Pharos Remote DALI 4-Port Device (DALI x4)
---------------	--

*Pharos Controller required
DALI power supply per port required*

Warranty & Certifications

Warranty	5 Years
Certifications	CE compliant, UKCA compliant, UL/cUL listed.



RIO D426002

Remote DMX/SDI 4-Port Gateway

The Pharos RIO G4 (Remote Gateway 4-Port Device) is a convenient and scalable solution, providing cost-effective Ethernet-distributed DMX ports. The RIO G4 is an easily configurable networking node that is specifically designed to add physical DMX ports to Pharos controllers. Compact plastic enclosure with installer-friendly connectors, DIN-rail mount and PoE for deployment where you need it, with four output ports. The gateway is discoverable through Pharos software and associated to a Pharos controller to be seamlessly configured as part of your patch. Ports can be flexibly assigned, providing an elegant data distribution solution over an Ethernet network with minimal setup required.

Supported in Pharos Designer 2.13 or later.
Supported in Pharos Express 2.0 or later.



RIO G4 Features



Isolation

The RIO G4 offers four DMX512 output ports to control your fixtures. Each port is independently galvanically isolated up to 2kV, ensuring the control circuitry and each port of the RIO G4 is protected against a multitude of electrical line faults, including earth potential rise and ground loops.



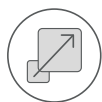
Protection

The RIO G4 is equipped with "self-healing" DMX ports, giving your equipment added protection from incorrect setup and energy surges, such as short circuits and power induction. Should an energy surge occur, it will be contained by the RIO, preventing it from flowing into other components; once the external fault is cleared, the ports "self-heal", restoring DMX output automatically.



RDM Capable

When connected to Express Control or Designer LPC family controllers, the RIO G4 supports the Remote Device Management protocol (ANSI E1.20), allowing fixtures connected to any of the DMX512 outputs to communicate back to their respectively assigned Controller over an Ethernet network.



Scalable

Multiple Remote Devices can be combined on the same network to build the ideal system for your installation. System totals and maximum device limits depend on controller type.



SDI (Designer only)

Accessory for the RIO G4 supporting serial data protocol outputs for controlling products such as addressable LED tape.



Power-over-Ethernet

As a Power-over-Ethernet (PoE) device, the RIO G4 can be placed at any remote location and only needs a single Ethernet cable that provides both power and data.



Commissioning Software

Programmed and configured using Pharos software – available free for Windows or macOS – with upload over Ethernet.



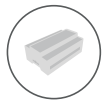
Reliable

Solid-state design for 24/7 operation and reliability. Configurable hold last look option at 5Hz refresh, in the event of output data connection loss.



Installer Friendly

Made for permanent installation, with installer-friendly 0.200" (5.08mm) plug-in rising clamp terminals, a compact, plastic enclosure and easy DIN rail mounting. Includes a convenient thumb wheel for easy addressing and access to built-in DMX test programs.



Network

Works with any Pharos controller and links to it using standard protocols over an Ethernet network.



Interfaces

Ethernet	RJ45 socket for 100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Power-over-Ethernet (PoE)
DMX	Four DMX512 ports (USITT E1.11-2008), RDM Compatible*

Protocols

DMX	DMX512 supports 512 channels output per port
RDM	Supports discovery and addressing via Pharos software (Excluding Designer VLC family)
UltraDMX	MY94441 supported natively (Designer only)
SPI	In SDI mode, supports serial data via the Pharos SDI (Designer only)

One output protocol per RIO G4

System Limits (Designer)

Remote Device system limit count includes all RIO, EDN, TPS and BPS in project.

In Project	Maximum 200 remote devices across multiple controllers in a single Pharos Designer project.
Per Controller	Maximum remote device limits assigned to controllers depend on controller type: 64 for each LPC, TPC 100 for each LPC X, VLC

System Limits (Express)

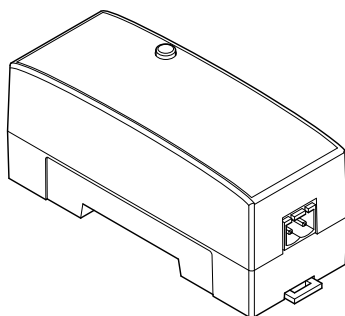
An Express system comprises one Express Control and optional devices.

In Project	Maximum four RIO G4 assigned to an Express Control.
-------------------	---

Accessories (Designer only)

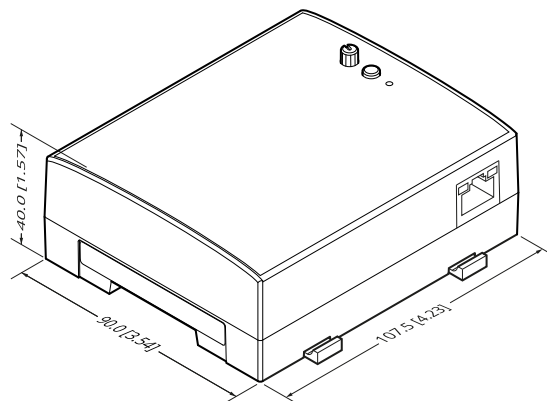
The SDI is an accessory to the RIO G4. This enables any Pharos controller to output via the RIO G4 + SDI a variety of serial protocols for controlling products such as addressable LED tape.

Both synchronous (SPI) and asynchronous serial lighting data are supported and these protocols allow for up to 1536 channels per port with supported cable lengths between the RIO G4 and SDI of up to 200m for asynchronous data and 40m for synchronous data.



Specifications

Power Required	PoE (IEEE802.3af, Class 2), 7W max
Configuration	Any Pharos controller Pharos Designer 2.13 or later Pharos Express 2.0 or later
Addressing	By rotary selector switch
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress Protection	IP40
Isolation	Self-healing ports can withstand continuous AC voltage up to 300V or peak impulse voltage up to 650V with duration less than 10ms Ports independently galvanically-isolated up to 2kV
Physical	6 unit wide DIN rail mounting enclosure (35/7.5 rail) 10.8 x 9 x 4 cm (4.2 x 3.5 x 1.6 in) 0.2 kg (0.5 lbs)
Shipping	19.5 x 15 x 7.5 cm (8 x 6 x 3 in) 0.4 kg (0.9 lbs)
Recovery	Hardware watchdog and recessed reset button



Order Code & Variants

RIO G4	Pharos Remote Gateway 4-Port Device (DMX/SDI x4)
---------------	--

Pharos controller required

Warranty & Certifications

Warranty	5 Years
Certifications	CE compliant, UKCA compliant, UL/cUL listed.



*Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

RIOG426002

Pharos Repeat

Pharos Repeat is a convenient DMX512 splitter / repeater with four output ports compatible with the RDM standard to provide DMX distribution to luminaires. The incoming isolated DMX signal from your controller is regenerated four times on isolated, self-healing ports for distribution to your fixtures. DMX splitters are an essential requirement for most control systems, allowing multiple separate cable runs from a single DMX output and ensuring electrical isolation. This DIN rail mount repeater with install-friendly connectors requires a power supply in the range of 9 to 48V DC. Compatible with Pharos Designer and Pharos Express systems.



Pharos Repeat Features



Installer Friendly

Made for permanent installation, with installer-friendly 0.200" (5.08mm) plug-in rising clamp terminals, flexible power requirements from 9 to 48V DC, and easy DIN rail and keyhole mounting options.



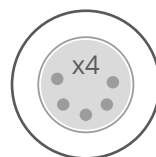
Isolation

Each input and output port is independently galvanically isolated, ensuring the control circuitry and each port of the Repeat is protected against a multitude of electrical line faults, including earth potential rise and ground loops.



Protection

Repeat is equipped with four self-healing DMX ports, giving your equipment added protection from unwanted energy, such as miswiring, short circuits, and surge events caused by lightning. Should a fault occur, it will be contained by the Repeat, preventing it from flowing into other components in the system; once the external fault is cleared, the ports "self-heal", restoring DMX output automatically.



Four Port Outputs

Repeats a DMX signal to 4 outputs, each allowing for 32 DMX devices to be connected.



RDM

Supports the Remote Device Management protocol (ANSI E1.20) allowing devices connected to any of the four outputs to be discovered and to communicate back to controllers over the DMX link.



Reliability

Made for permanent installation and designed for 24/7 operation and reliability.

Interfaces

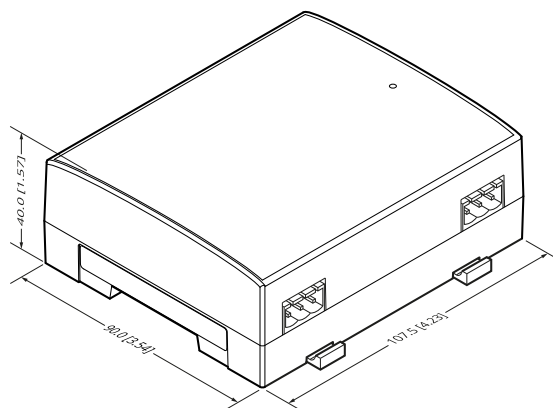
DMX/RDM input DMX512 port * (ANSI E1.11-2024), RDM compatible
DMX/RDM outputs Four DMX512 ports * (ANSI E1.11-2024), RDM compatible

Order Code & Variants

PAC R Pharos Repeat (DMX Splitter with 1 in, 4 out, 24V DC)

Specifications

Power 9-48V DC * (4W typical)
Temperature 0°C to 50°C (32°F to 122°F)
Humidity 10-90% relative, non-condensing
Ingress IP40
Protection Self-healing ports can withstand continuous AC voltage up to 300V or peak impulse voltage up to 650V with duration less than 10ms
Isolation All input and output ports independently galvanically (capacitive) isolated.
 Isolation protection of 2500VRMS
Physical 6 unit wide DIN rail mounting enclosure (35/7.5 rail)
 10.8 x 9 x 4 cm (4.2 x 3.5 x 1.6 in)
 0.2 kg (0.5 lbs)
Shipping 19.5 x 15 x 7.5 cm (8 x 6 x 3 in)
 0.4 kg (0.9 lbs)
Reset Recessed reset button



Warranty & Certifications

Designed and manufactured in the UK, with a 5-year warranty, where quality and reliability are our top priority.

Warranty 5 years

Certifications CE compliant, UKCA compliant, UL/cUL listed.



* Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

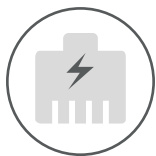


Pharos Switch

Pharos Switch is a convenient unmanaged Ethernet switch providing simple power and networking solutions for up to four Power-over-Ethernet devices. An elegant and easy solution to connect and power PoE controllers, remote devices and touch devices, with the Ethernet-in non-powered port connecting directly to the programming laptop or joining to a local network. This DIN rail mount PoE network switch only requires a 24V DC power supply. Compatible with Pharos Designer and Pharos Express systems.



Pharos Switch Features



PoE Convenience

Combine power and data in a single Ethernet cable using PoE (IEEE 802.3af) technology, making it easy to locate your Pharos PoE devices where you need them.



Installer Friendly

Made for permanent installation, with installer-friendly 0.200" (5.08mm) plug-in rising clamp terminals requiring convenient 24V DC power; standard RJ45 sockets, and easy DIN rail and keyhole mounting options.



No Commissioning

The simple unmanaged switch operates out of the box, with no commissioning required.



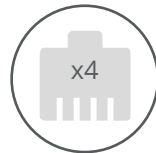
Flexible

Automatically detects the requirements of the connected device to provide the correct power level.



Protected

Resettable fuses protect each port with the appropriate level of overcurrent protection for the Class of device that is attached.



Multiple Ports

Use four ports to power and connect Pharos PoE controllers, remote devices and touch devices (or other IEEE 802.3af compliant devices). One additional port (without PoE) available to connect to your computer, other networks or other devices that do not require Power-over-Ethernet.



Reliability

Made for permanent installation and designed for 24/7 operation and reliability.

Interfaces

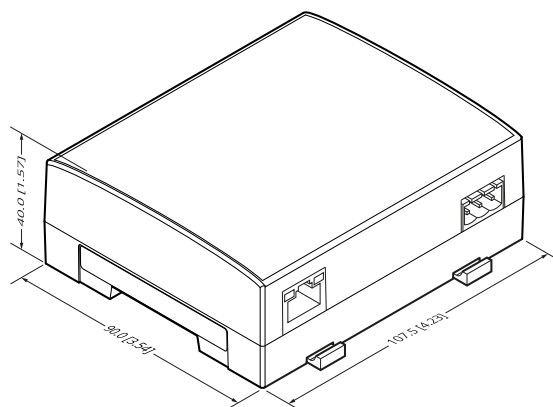
PoE	Four RJ45 sockets for 10/100Base-TX Ethernet with Power-over- Ethernet (10W max on each port) Supports IEEE 802.3af Type 1- Class 1, 2 and 0 (up to 10W) devices
Ethernet	RJ45 socket for 10/100Base-TX Ethernet

Order Code & Variants

PAC S	Pharos Switch (Unmanaged PoE Ethernet switch with 4 Port, Class 2 PoE, 24V DC)
--------------	--

Specifications

Power	24V DC *, power consumption dependent on load (45W maximum)
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress	IP40
Physical	6 unit wide DIN rail mounting enclosure (35/7.5 rail) 10.8 x 9 x 4 cm (4.2 x 3.5 x 1.6 in) 0.3 kg (0.7 lbs)
Shipping	19.5 x 15 x 7.5 cm (8 x 6 x 3 in) 0.4 kg (0.9 lbs)



Warranty & Certifications

Designed and manufactured in the UK, with a 5-year warranty, where quality and reliability are our top priority.

Warranty 5 years

Certifications CE compliant, UKCA compliant, UL/cUL listed.



* Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)