

DY-7042 POE+ Series **High Efficiency / Secure**

5 & 6 Port 10/100 Unmanaged POE+ Mini- Switch, Temperature Hardened



- * 4 X 10/100 Mbps PSE (POE+) IEEE 802.3 af/at Ports
- * 1 or 2 Uplink Ports Copper / SFP, or Fiber
- * Rugged Design IP40
- * Temperature Hardened: -40 ~ +85 Centigrade
- * UnManaged Plug & Play
- * EMC Performance is Industrial Level 4
- * Security Queueing
- * Polarity Protection
- * Overload Current Protection
- * Alarm Relay contact (1A @ 24 Volts DC)
- * Redundant Dual Inputs
- * Up to 30 Watts Per Port All PSE Ports
- * 5 Year Warranty















The DYMEC Industrial Ethernet POE+ Ethernet are 4 X 100 / 100 TX (PSE) (Power-over-Ethernet Plus) unmanaged din railswitches. The switches will support IEEE 802.3 af or at compliant POE powered devices (PD). The output of the ports is a maximum 30 Watts per port. All four PSE ports can have the maximum wattage at the same time. (120 Watts Total). There is no limiting power budget to deal with.

This series product supports a variety of 1 & 2 port non-pse uplinks. The specific model will specify the appropriate uplink.

The 7042 POE+ series product is built with premium, Class 1, temperature hardened chip sets, for ultra-low latency, high throughput, and maximum power performance. Using Kyland-USA's DirectPower Design Technology, excessive heat dissipation problems are a thing of the past. Less heat lost in the switch means longer switch life and lower operational costs. We use less energy than our competition - providing a better value for customers.

This is the preferred switch for your Security, Telecomm or Transportation application. Our Security Queue Technology helps prevent unwanted intrusions to your network.

DYMEC - Innovative Industrial Products



Technical Specifications

Standard

IEEE 802.3, IEEE 802.3i IEEE 802.3u, IEEE 802.3x IEEE 802.3af, IEEE 802.3at

Switch Properties

MAC Table: 2.5K Packet Buffer: 1 M Packet Forwarding Rate: 1.3Gbps Switching Delay: <4µs

Interface

Fast Ethernet Fiber Ports: max 1 100Base-FX, SM/MM port, FC/SC/ST connector. Auto-MDI / MDI-X function, Full & Half Duplex Fast Ethernet RJ45 Ports: max 5 10/100Base-TX RJ45 ports

LED

LEDs on Front Panel: Power LED: PWR1, PWR2 Interface LED: Link/ACT POE LED: Amber, SW (Relay) Amber

Transmission Distance

Twisted Pair: 100m (Standard CAT5, CAT5e, Cat 6, Cat6e, network cable)

Multi Mode Fiber: 1310nm, 2km or (550M) Single Mode Fiber: 1310nm, 40km/60km

1550nm, 60km/80 / 120km



POE+

Power Requirements

Power Input: POE+

48 volts DC POE (44-56Volts DC)

Power Consumption:

<2W (no PD), <123W (full load PD)

Overload Protection: Supported

Reverse Connection Protection: Supported

Physical Characteristics

Housing: Metal, fanless (convection cooled)

Protection Class: IP40

Dimensions (L×W×D): $142 \times 36.1 \times 105$ mm

Weight: 0.55kg

Mounting: DIN-Rail or Wall / Panel mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 97% (non-condensing)

MTBF

511,310 hours (MIL-HDBK-217F) at 25 Degrees Centigrade

Warranty

5 years

Approvals

UL, CE, FCC, VCC

Industrial Standard

FCC Part 15 Subpart B, (Class A), EN55022/CISPR22, Class A

FMS:

IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)

IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV

IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV

IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:

IEC60068-2-6 (Vibration), IEC60068-2-27 (Shock), IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2 Railway: EN50155, EN50121-4













EN 55022 / 24 ITE Equipment

EN 50155 Railway / Railcar Applications, Electronic Equipment used on rolling stock

EN 55011 Industrial, Scientific, and Medical (ISM) equipment

EN 50121-3-2 Railway Applications, Electromagnetic Compatibility - Part 3-2: Rolling Stock - Apparatus

Railway Applications - Electromagnetic Compatibility - Part 4: Emissions & Immunity of the EN 50121-4

Signaling and Telecommunications Apparatus

Safety IEC EN60950-1

EMC / EMS CE, FCC, VCCI

EMI FCC Part 15, Subpart B, Class A: CE EN 55022 Class A

EN 50155 / EN 60068-2-6 Vibration

EN 50155 / EN 60068-2-27 Shock

EN 50155 / EN 60068-2-32 Free Fall

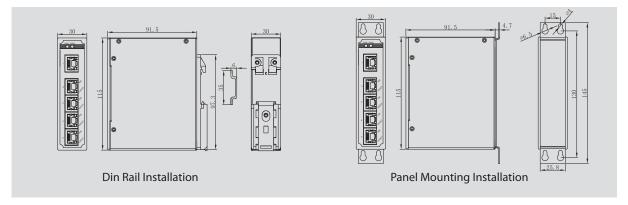
IEEE1613 Power Utility / Substation

NEMATS-2 Traffic Control / Outdoor

EnergyStar

POE+

Mechanical Drawing





DYMEC 7042 Series: UnManaged 10/100 POE+

Fiber Connector Types: SC= SC Connector ST= ST Connector FC= FC Connector

Available Models:

DY-7041T: 5 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 1 X 10/100BaseT(X) / RJ45 Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7042T: 6 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100T(X) / RJ45 PSE (POE+), & 2 X 10/100BaseT(X) / RJ45

Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7041SC: 5 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 1 X 100Mbps SC / MM (2 KM) Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7042SC: 6 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 2 X 100Mbps SC / MM (2 KM) Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7041SC-30: 5 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 1 X 100Mbps SC / SM (30 KM) Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7042SC-30: 6 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 2 X 100Mbps SC / SM (30 KM) Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7042TSC: 6 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 1 X 100Mbps SC / MM (2 KM) &

1 X 10/100BaseT(X) / RJ45

Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-7042TSC-30: 6 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100BaseT(X) / RJ45 PSE (POE+), & 1 X 100 Mbps SC / SM (30 KM) &

1 X 10/100BaseT(X) / RJ45

Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)





POE+

Additional DY-9080A Series: 8 Port with & without POE+





DYMEC 9080A Series: UnManaged 8 Port 10/100 with POE+ / non-POE

Available Models:

DY-9080A: 8 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

8 X 10/100BaseT(X) / RJ45 PSE (POE+)

Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-9080A-4P: 8 Port 10/100 Mbps POE+ Industrial Ethernet Switch (UnManaged)

4 X 10/100T(X) / RJ45 PSE (POE+), & 4 X 10/100BaseT(X) / RJ45

Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

DY-D9080A: 8 Port 10/100 Mbps Industrial Ethernet Switch (UnManaged)

8 X 10/100BaseT(X) / RJ45

Dual Redundant DC power inputs with Alarm Relay (1A @ 24 Volts DC)

