

IGP-0102

Industrial Gigabit POE Injector, 802.3at PoE+, 36W, 12 to 56 VDC

User Manual



FCC MARKING

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE MARKING

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

Trademarks:

All trade names and trademarks are the properties of their respective companies.

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NOTE:

Always make sure the total length of the TX cable DOES NOT exceed 100meter. Total length is defined as length A + length B

Length A + Length B < 100 meter



Maximum total cable length is 100meter.

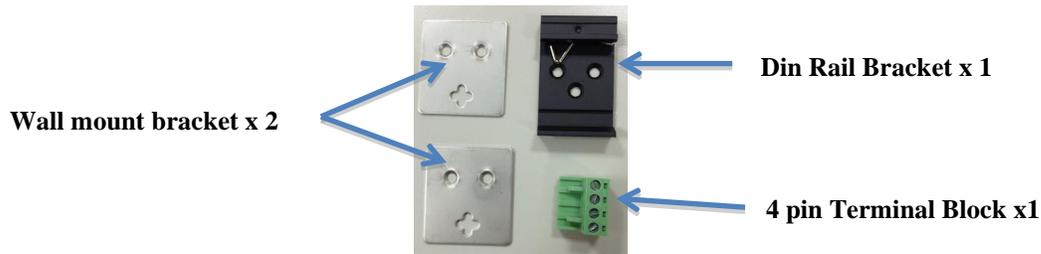
During 100Mbps transmission, the maximum total cable length is 100 meter.

During 1000Mbps speed transmission, recommend maximum cable length less than 90 meter is more desired.

POE signal attenuates every meter, the built-in transformer allows the attenuation to reach 100 meter long to follow IEEE802.3af / at standard. the higher quality of PD you connected to, the more reliable the network will be. When connect to a poor quality PD, it can not generate strong signal to send to remote switch. Always make sure you have a high quality PD to perform a desired network.

Installation package

This unit can be installed by din-rail mounted or wall-mounted. Din-rail brackets and wall-mounted bracket are included.

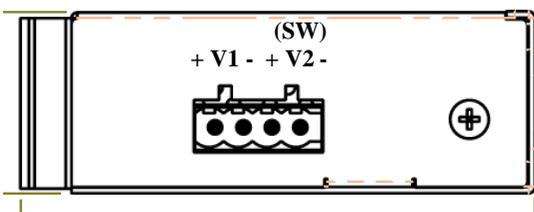


Power connection

The provided 4 pin terminal block can be connected with 48VDC to 56VDC power source. Always Make sure your input voltage is within this supported voltage range.

To make power connection – Follow the printed polarity for V+, V-, Ground. Connect positive wire to V+ , connect negative wire to V-, also connect neutral wire to ground. This unit can be connected to two power input.

+V1- is for power input one connection,
+V2-(SW) is for power input two connection.



Connecting procedure

STEP 1 –

Take out 4 pin terminal block located in the included mounting kit package.

STEP 2 –

Connect power wire to +V1- or Connect +V2- (SW) as shown above

STEP 3 –

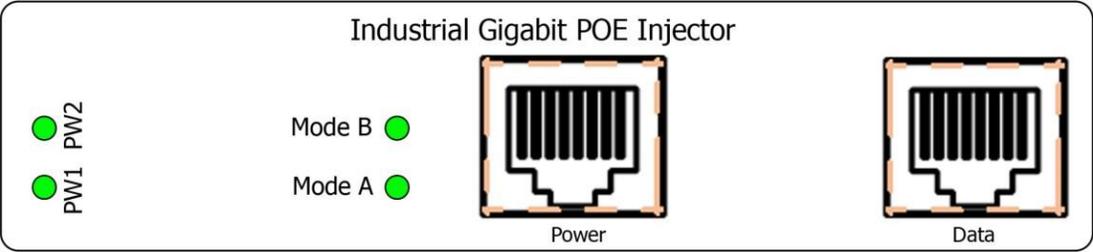
Plug into terminal block socket shown above. Polarity needs to match the V+ and V-

WARNING -- Always SHUTS OFF power source to connect power wire.

WARNING – any exceeded input voltage will not make this unit function and may damage this unit.

LED indicator

PW—Power 1, Power 2



Mode A Green LED ON --
For End-Span POE power 1,2,3,6

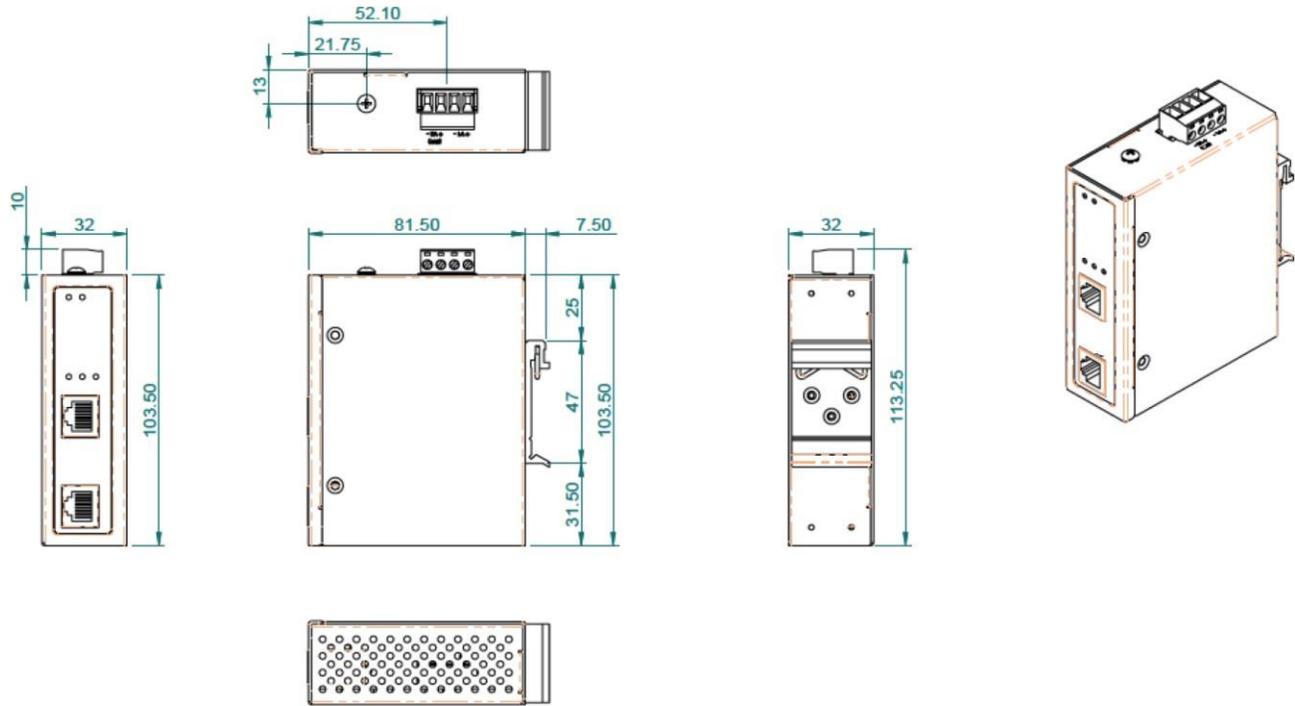
NOTE:
Mode B Green LED is only for Mode B End-Span model. with pin assignment 4,5,7,8. This LED will not lit on for this model.

Specification:

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE802.3af for POE IEEE802.3at for POE+
Network Connector :	1xRJ-45 10/100/1000BaseT(X) Data 1xRJ-45 10/100/1000BaseT(X) Data with POE Output power
Network Cable	UTP/STP above Cat.5e Cable EIA/TIA-568 10-ohm (100m)
Protocol	CSMA/CD
LED	PW1(power 1) Green: ON- power good, OFF- power failed PW2(power 2) Green: ON- power good, OFF- power failed POE: ON- POE Normal working, FLASH- Overload, OFF- NO POE power detected
POE Pin Assignment	Mode A model, V+, V+, V-, V- for pin 1, 2, 3, 6
Reverse polarity protection	Present
Overload current protection	Present
Power Supply	2 Redundant power source 12V~56V VDC Power Input
Power Consumption	1 W@ 12/24/48 VDC full load, Without POE
POE power	Maximum POE power 36watts at 12/24/48VDC input

Removable Terminal Block	Provide 4 pin terminal block Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG):12-24/14-22 Stranded wire(AWG): 12-24/14-22 Torque:5lb-In/0.5Nm/0.56Nm Wire Strip length: 7-8mm
Operating Temperature	-40°C~75°C fully tested.
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40°C~85°C
MTBF (mean time between failure)	510,304 hrs (MIL-HDBK-217F) at 25°C
Housing	Rugged Metal ,IP30 Protection
Case Dimension (L X W X D)mm	103.5mmx32mmx81.5mm (LxWxD)
Installation mounting	DIN Rail mounting and Wall Mounting
Certifications:	
EN55022/24	ITE equipment
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

Housing Dimension



Multilingual Quick Guide

IGP-0102

Industrial Gigabit POE Injector

EN

Power connection

This unit provides 4 pin terminal block. The PoE port can be operated from 48-56VDC power source input.

Power connecting procedure:

STEP 1 – Pull out 4 pin terminal block.

STEP 2 – Connect wire to V1+, V1-, or V2+, V2-, and Ground the neutral wire to the ground screw.

STEP 3– Plug back 4 pin terminal block to its place.

DE

Stromanschluss

Dieses Gerät verfügt über einen 4-poligen Anschlussblock. Der PoE-Anschluss kann über den Stromeingang mit 48 bis 56 V Gleichspannung betrieben werden.

Stromanschlussverfahren:

Schritt 1 – 4-poligen Anschlussblock herausziehen.

Schritt 2 – Draht mit V1+, V1- oder V2+, V2- und Erde, Neutralleiter mit Erdungsschraube verbinden.

Schritt 3 – 4-poligen Anschlussblock wieder anbringen.

FR

Connexion de l'alimentation

Cet unité dispose d'un bornier à 4 broches. Le port PoE peut être utilisé avec une entrée d'alimentation de 48-56Vcc.

Procédure de connexion de l'alimentation :

ÉTAPE 1 – Sortez le bornier à 4 broches.

ÉTAPE 2 – Connectez le fil à V1+, V1- ou à V2+, V2-, et reliez le fil neutre à la terre avec la vis de terre.

ÉTAPE 3– Rebranchez le bornier à 4 broches à sa place.

ES

Conexión de alimentación

Esta unidad proporciona un bloque de terminales de 4 contactos. El puerto PoE se puede utilizar con una entrada de fuente de alimentación de entre 48 y 56 VCC.

Procedimiento de conexión de alimentación:

PASO 1: Saque el bloque de terminales de 4 contactos.

PASO 2: Conecte el cable a V1+, V1-, o V2+, V2- y conecte el cable de tierra al tornillo de toma de tierra.

PASO 3: Vuelva a enchufar el bloque de terminales de 4 contactos en su lugar.

PT

Ligação de alimentação

Esta unidade fornece um bloco terminal de 4 pinos. A porta PoE pode ser utilizada através da entrada de fonte de alimentação 48-56VDC.

Procedimento de ligação de alimentação:

PASSO 1 – Puxe pelo bloco terminal de 4 pinos.

PASSO 2 – Ligue o cabo a V1+, V1-, ou V2+, V2-, e o cabo neutro ao parafuso de ligação à terra.

PASSO 3– Volte a ligar o bloco terminal de 4 pinos no seu lugar.

IT

Collegamento dell'alimentazione

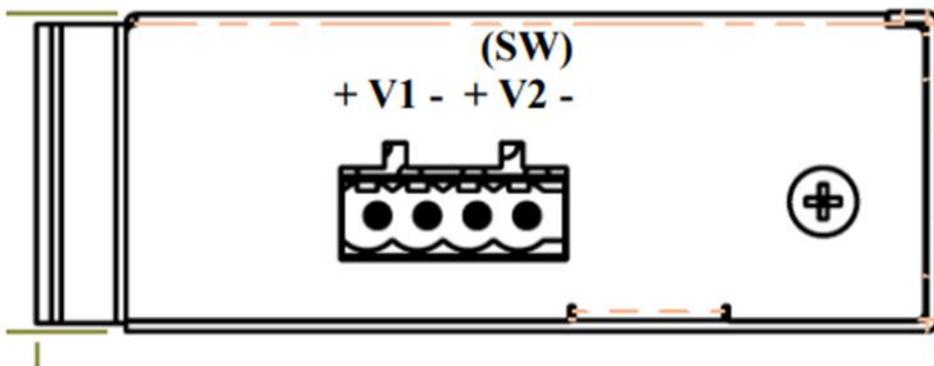
Questa unità fornisce una morsettiera a 4 pin. La porta PoE può essere azionata dall'ingresso della fonte di alimentazione a 48-56 V CC.

Procedura di collegamento dell'alimentazione:

FASE 1 – Estrarre la morsettiera a 4 pin.

FASE 2 – Collegare il cavo a V1+, V1- o V2+, V2- e terra e il cavo neutro alla vite di messa a terra.

FASE 3 – Collegare di nuovo la morsettiera a 4 pin in posizione.





Declaration of Conformity

We, the undersigned, Digital Data Communications GmbH
Address Hohe Straße 1, 44139 Dortmund, Germany

Certify and declare under our sole responsibility that the following apparatus

Type Switch
Brandname LevelOne
Product IGP-0102

**Conforms with the essential requirements of the EMC Directive
2014/30/EU, 2014/35/EU, RoHS Directive 2011/65/EU, based on the following
specifications applied:**

- EN 55032: 2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- CISPR 32: 2015
- EN 55024: 2010/ A1: 2015
- EN 61000-4-2: 2008
- EN 61000-4-3: 2006+A1:2007+A2:2010
- EN 61000-4-4: 2012
- EN 61000-4-5: 2014+ A1:2017
- EN 61000-4-6: 2013/ COR1:2015
- EN 61000-4-8: 2019
- EN 61000-4-11: 2004+A1:2017
- IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

and therefore complies with the essential requirements and provisions of the EMC Directive.



The symbol confirms that this product conforms to the above named standards and regulations.

Amanda(Shu-Wen) Chen

Name (Full Name)

2019/05/8

Date

Geschäftsführerin

Title/ Department

Legal Signature



Declaración de Conformidad

El fabricante **Digital Data Communications GmbH**
Dirección: Hohe Straße 1, 44139 Dortmund, Germany

Declara mediante este documento que el producto

Tipo Switch
Producto IGP-0102
Marca LevelOne

Cumple con las siguientes directivas:

- Directiva EMC 2014/30/EU
- LVD 2014/35/EU,
- RoHS 2011/65/EU

El producto cumple asimismo con las siguientes normas:

- EN 55032: 2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- CISPR 32: 2015
- EN 55024: 2010/ A1: 2015
- EN 61000-4-2: 2008
- EN 61000-4-3: 2006+A1:2007+A2:2010
- EN 61000-4-4: 2012
- EN 61000-4-5: 2014+ A1:2017
- EN 61000-4-6: 2013/ COR1:2015
- EN 61000-4-8: 2019
- EN 61000-4-11: 2004+A1:2017
- IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013



Este producto ha sido diseñado para su uso sólo en interiores.
La marca CE certifica que este producto se adecua a las especificaciones y regulaciones arriba mencionadas.
Este producto es adecuado para todos los países de la UE.

Amanda(Shu-Wen) Chen

Name (Full Name)

2019/05/8

Date

Geschäftsführerin

Title/Department

Legal Signature



Konformitätserklärung

Der Hersteller **Digital Data Communications GmbH**
Adresse Hohe Straße 1, 44139 Dortmund, Germany

erklärt hiermit, dass das Produkt

Typ Switch
Produkt IGP-0102
Markenname LevelOne

den folgenden Richtlinien entspricht:

- Directiva EMC 2014/30/EU
- LVD 2014/35/EU,
- RoHS 2011/65/EU

Für die Beurteilung der Einhaltung der Konformität angewandte Normen:

- EN 55032: 2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- CISPR 32: 2015
- EN 55024: 2010/ A1: 2015
- EN 61000-4-2: 2008
- EN 61000-4-3: 2006+A1:2007+A2:2010
- EN 61000-4-4: 2012
- EN 61000-4-5: 2014+ A1:2017
- EN 61000-4-6: 2013/ COR1:2015
- EN 61000-4-8: 2019
- EN 61000-4-11: 2004+A1:2017
- IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013



Das Zeichen bestätigt, dass dieses Produkt oben aufgeführte Normen und Bestimmungen erfüllt.

Amanda(Shu-Wen) Chen

Name (Full Name)

2019/05/8

Date

Geschäftsführerin

Title/Department

Legal Signature



Déclaration de Conformité

Nous, les soussignés **Digital Data Communications GmbH**
Adresse Hohe Straße 1, 44139 Dortmund, Germany

Certifie et déclare sous sa seule responsabilité que le produit suivant

Type Switch
Produit IGP-0102
Enseigne LevelOne

En conformité avec les exigences essentielles de la directive 2014/30/EU, 2014/35/EU, RoHS Directive 2011/65/EU, sur la base des normes suivantes:

Les normes harmonisées d' EU

- EN 55032: 2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- CISPR 32: 2015
- EN 55024: 2010/ A1: 2015
- EN 61000-4-2: 2008
- EN 61000-4-3: 2006+A1:2007+A2:2010
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- IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013



Le symbole confirme que ce produit répond aux normes et règlements ci-dessus ..

Amanda(Shu-Wen) Chen

Name (Full Name)

2019/05/8

Date

Geschäftsführerin

Title/ Department

Legal Signature



Dichiarazione di conformità

In fabbricante **Digital Data Communications GmbH**
Indirizzo Hohe Straße 1, 44139 Dortmund, Germany

Dichiara qui di seguito che il prodotto

Tipo Switch
Prodotto IGP-0102

Nome marca LevelOne

Risulta in conformità a quanto previsto dalle seguenti direttive comunitarie:

- Direttiva EMC 2014/30/EU
- LVD 2014/35/EU,
- RoHS 2011/65/EU

Sono stati applicati i seguenti standard per assicurarne la conformità:

- EN 55032: 2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- CISPR 32: 2015
- EN 55024: 2010/ A1: 2015
- EN 61000-4-2: 2008
- EN 61000-4-3: 2006+A1:2007+A2:2010
- EN 61000-4-4: 2012
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- EN 61000-4-6: 2013/ COR1:2015
- EN 61000-4-8: 2019
- EN 61000-4-11: 2004+A1:2017
- IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013



Il simbolo CE conferma che questo prodotto è conforme ai suddetti standard e regolamentazioni.

Amanda(Shu-Wen) Chen

Name (Full Name)

2019/05/8

Date

Geschäftsführerin

Title/Department

Legal Signature



Declaração de Conformidade

O fabricante **Digital Data Communications GmbH**

Morada Hohe Straße 1, 44139 Dortmund, Germany

Declara que o produto

Tipo Switch
Produto IGP-0102

Cumpe as seguintes directivas:

- Directiva EMC 2014/30/EU
- LVD 2014/35/EU,
- RoHS 2011/65/EU

Os seguintes standards foram consultados para avaliar a conformidade:

- EN 55032: 2015
- EN 61000-3-2: 2014
- EN 61000-3-3: 2013
- CISPR 32: 2015
- EN 55024: 2010/ A1: 2015
- EN 61000-4-2: 2008
- EN 61000-4-3: 2006+A1:2007+A2:2010
- EN 61000-4-4: 2012
- EN 61000-4-5: 2014+ A1:2017
- EN 61000-4-6: 2013/ COR1:2015
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- IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013



O símbolo confirma que este produto está conforme os padrões e regulamentações acima referidos.

Amanda(Shu-Wen) Chen

Name (Full Name)

2019/05/8

Date

Geschäftsführerin

Title/Department

Legal Signature