

ORing

Quick Installation Guide

Introduction

IGPS-1080A is unmanaged PoE Ethernet switch with P.S.E. function. IGPS-1080A supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IGPS-1080A switch has 8X10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40°C to 75°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

Features

- > Provide 8x10/100/1000Base-T(X) PoE (P.S.E.) ports
- > Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- > Supports jumbo frame up to 9720 Bytes
- > Support auto-negotiation and auto-MDI/MDI-X
- > Support full/half-duplex transmission
- > Support store and forward transmission
- > Support flow control
- > Slim type rigid IP-30 housing design
- > DIN-Rail and wall mounting enabled

→ Package Contents

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance

Contents	Pictures	Number
IGPS-1080A		X 1
DIN-rail Kit		X 1
Wall-mount Kit		X 2
QIG		X 1
6-pin terminal block		X 1

→ Preparation

Before you begin installing the switch, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

Safety & Warnings



Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

IGPS-1080A

Industrial Unmanaged Gigabit PoE Switch



Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised

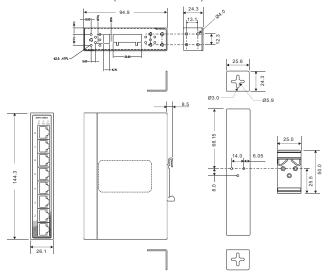


Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

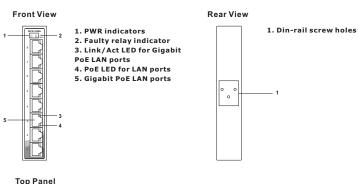


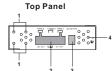
Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Dimension Unit =mm (Tolerance ±0.5mm)



Panel Layouts





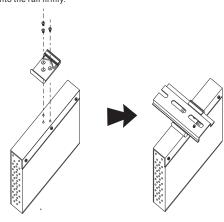
- 1. Wall-mount screw holes
- 2. Terminal blocks: PWR1, PWR2
- , Relay
- 4. Ground wine
- 4. Ground wire.

Installation

DIN-rail Installation

Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the middle of the back panel.

Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks into the rail firmly.



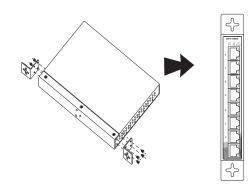
Wall-mounting

Step 1: Screw the wall-mount kit onto the rear panel of the switch. A total of six screws are required, as shown below.

Step 2: Use the switch, with wall mount plates attached, as a guide to mark the correct locations of the four screws

correct locations of the four screws.

Step 3: Insert a screw head through the large parts of the keyhole-shaped apertures, and then slide the switch downwards. Tighten the screws for added stability.



Network Connection

The switch provides standard Ethernet ports. According to the link type, the switch uses CAT 3,4,5,5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable Types and Specifications:

Cable	Туре	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45
1000BASE-T	Cat. 5 / Cat. 5e 100-ohm UTP	UTP 100 m (328 ft)	RJ-45

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IGPS-1080A

Industrial Unmanaged Gigabit PoE Switch

For pin assignments for different types of cables, please refer to the following tables.

10/1	00Base-T(X) P.S.E. RJ-45 port
Pin No.	Description
#1	TD+ with PoE Power Input +
#2	TD- with PoE Power Input +
#3	RD+ with PoE Power Input -
#4	N.C.
#5	N.C.
#6	RD- with PoE Power Input -
#7	N.C.
#8	N.C.

	1000Base-T P.S.E. RJ-45 port
Pin No.	Description
#1	BI_DA+ with PoE Power Input +
#2	BI_DA- with PoE Power Input +
#3	BI_DB+ with PoE Power Input -
#4	BI_DC+
#5	BI_DC-
#6	BI_DB- with PoE Power Input -
#7	BI_DD+
#8	BI_DD-

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

DIP Switch Setting

DIP-1	DIP-2	Description
OFF	OFF	Power failure relay alarm disabled
OFF	ON	PWR-1 failure, relay alarm enabled
ON	OFF	PWR-2 failure, relay alarm enabled
ON	ON	PWR-1 or PWR-2 failure, relay alarm enabled

Wiring

Power inputs

The switch supports dual redundant power supplies, Power Supply1 (PWR1) and Power Supply 2 (PWR2). The connections for PWR1, PWR2 and the RELAY are located on the terminal block.

STEP 1: Insert the negative/positive wires into the V-/V+ terminals, respectively.

STEP 2: To keep the DC wires from pulling loose, use a small flatblade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector.



Relay contact

The two sets of relay contacts of the 6-pin terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form an close circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains opened.

Grounding

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screws to the grounding surface prior to connecting devices.

Configurations

After installing the switch, the green power LED should turn on. Please refer to the following tablet for LED indication.

LED	Color	Status	Description
P1	Green	On	DC power 1 activated
P2	Green	On	DC power 2 activated
Fault	Amber	On	Faulty relay (power failure or port disconnected)
10/100/1000	Base-T(X) Gigabit Po	E Ethernet ports	
LNK/ACT	Green	On	Port link at 1000Mbps
LNK/ACI	Amber	On	Port link at 10/100Mbps
PoE	Green	On	Power supplied over Ethernet

Specifications

Technology Technology IEEE 802.3 for 10Base-T IEEE 802.3 for 100Base-T IEEE 802.3 for 100Base-	IGPS-1080A	ORing Switch Model
Technology IEEE 802.3 for 10Base-T IEEE 802.3 for 10Base-T IEEE 802.3 for 10Base-T IEEE 802.3 for 100Base-T IEEE 802.3 for 10Base-T IEEE 802.8 for 10Base-T IEE		Physical Ports
Ethernet Standards IEEE 802.3 for 100Base-T IEEE 802.3 u for 100Base-T IEEE 802.3 x for Flow control IEEE 802.3 x for Flow co	8	
Ethernet Standards IEEE 802.3ab for 10008as=TX IEEE 802.3ab for 10008as=T IEEE 802.3ab for 10008as for		Гесhnology
Processing Store-and-Forward Packet buffer size 192K Bytes Switch Latency <7us Switching Bandwidth 166bps Jumbo Frame Up to 9KBytes LED Indicators Power indicator Green: Power LED x2 Fault indicator Amber: Indicate PWR1 or PWR2 failure 10/100/1000Base-T(X) RJ45 port indicator and PoE indicator Upper for Lick/Act indicator, Green for 1G, Amber for 10/100Mbps Lower for PoE indicator, Green for PoE power injected. DIP-Switch Upper for Lick/Act indicator, Green for PoE power injected. DIP-Switch Power-2 failed warning: (ON) enable, (OFF) disable Power-1 failed warning: (ON) enable, (OFF) disable Fault contact Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block PoE output power 180 Watts Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 85°C (-40 to 185°F) Operating Humidity S% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B class A EM 55032, CISPR32, EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (ES), IEC/EN 61000-4-8(FE) EMS (EMS 1000-4-11(OIP))	u for 100Base-TX ab for 1000Base-T x for Flow control	Ethernet Standards
Packet buffer size 192K Bytes Switch Latency <7us Switch Indicators Power indicator	resses	MAC Table
Switch Latency < <7us Switching Bandwidth 16Gbps Jumbo Frame Up to 9KBytes LED Indicators Power indicator	Forward	Processing
Switching Bandwidth 16Gbps Jumbo Frame Up to 9KBytes LED Indicators Power indicator Green: Power LED x2 Fault indicator Amber: Indicate PWR1 or PWR2 failure 10/100/1000Base-T(X) R345 port Lower for Poet indicator, Green for 1G, Amber for 10/100Mbps Lower for Poet indicator, Green for Poet power injected. DIP-Switch DIP-Switch DIP-Switch 1 Power-2 failed warning: (ON) enable, (OFF) disable Power-1 failed warning: (ON) enable, (OFF) disable Fault contact Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block Power consumption(Typ.) 6 Watts (Poet output not included) Overload current protection Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 44.2 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Temperature -40 to 85°C (-40 to 167°F) Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMS CE EMC (EN 55024, EN 55032), FCC Part 15 B class A EN 55032 (ISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55032 (ISPR32, EN 61000-3-2, EN 61000-4-3 (RS)), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		Packet buffer size
Up to 9KBytes LED Indicators Power indicator		Switch Latency
Power indicator Green: Power LED x2 Fault indicator Amber: Indicate PWR1 or PWR2 failure 10/100/1000Base-T(X) RJ45 port Lower for PoE indicator, Green for 1G, Amber for 10/100Mbps Lower for PoE indicator, Green for PoE power injected. DIP-Switch DIP-Switch DIP-Switch 1 Power-2 failed warning: (ON) enable, (OFF) disable DIP-Switch 2 Power-1 failed warning: (ON) enable, (OFF) disable Fault contact Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block PoE output power 180 Watts Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Reverse polarity protection Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity S% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		Switching Bandwidth
Power indicator Green: Power LED x2 Fault indicator Amber: Indicate PWR1 or PWR2 failure 10/100/1000Base-T(X) R145 port Lower for Lick/Act indicator, Green for 1G, Amber for 10/100Mbps Lower for PoE indicator, Green for PoE power injected. DIP-Switch DIP-Switch DIP-Switch 1 Power-2 failed warning: (ON) enable, (OFF) disable DIP-Switch 2 Power-1 failed warning: (ON) enable, (OFF) disable Fault contact Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block PoE output power 180 Watts Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032 (ISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EM 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-8 (RS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-1 (CS)), IEC/EN 61000-4-8 (RS)	res	
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10/100/1000Base-T(X) R145 port indicator and PoE indicator, Green for PoE power injected. DIP-Switch 1		Fault indicator
DIP-Switch DIP-Switch 1 Power-2 failed warning: (ON) enable, (OFF) disable Power-1 failed warning: (ON) enable, (OFF) disable Fault contact Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block PoE output power 180 Watts Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity S% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B class A EM 55032, CISPR32, EN 61000-3-2, EN 61000-4-3 (RS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-8 (RS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		10/100/1000Base-T(X) RJ45 port
DIP-Switch 1 DIP-Switch 2 Power-1 failed warning: (ON) enable, (OFF) disable Fault contact Relay Relay output to carry capacity of 1A at 24 VDC Power Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block PoE output power 180 Watts Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Reverse polarity protection Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity S% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-5 (Surge,), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-1 (IDIP))	E indicator, Green for PoE power injected.	
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Redundant Input power Dual DC inputs 50-57VDC on 6-pin terminal block PoE output power 180 Watts Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity S% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-4-2, EN 61000-4-3, FCC Part 15 B class A EMS ENS 55024 (IEC/EN 61000-4-5 (Surge,), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-8 (PF IEC/EN 61000-4-8)), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-8), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-8)	t to carry capacity of 1A at 24 VDC	Relay
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Power consumption(Typ.) 6 Watts (PoE output not included) Overload current protection Present Present Physical Characteristic Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity S% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-1 (ICDIP)) IEC/EN 61000-4-11(DIP))	uts 50-57VDC on 6-pin terminal block	Redundant Input power
Overload current protection Present Physical Characteristic IP-30 Metal Enclosure 1P-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMC EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EMS EN 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		PoE output power
Present Present	output not included)	Power consumption(Typ.)
Physical Characteristic IP-30 Metal Enclosure 1P-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature Operating Temperature -40 to 85°C (-40 to 185°F) Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMC EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EMS EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		Overload current protection
Enclosure IP-30 Metal Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.) Weight (g) 442 g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EM 55032, CISPR32, EN 61000-4-2, EN 61000-4-3 (RS), IEC/EN 61000 IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		Reverse polarity protection
Dimension (W x D x H) 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.)		Physical Characteristic
### Weight (g) ### Environmental Storage Temperature		Enclosure
### Environmental Storage Temperature	9(D)x144.3(H) mm (1.03x3.74x5.68inch.)	Dimension (W x D x H)
-40 to 85°C (-40 to 185°F) Operating Temperature		Weight (g)
Operating Temperature -40 to 75°C (-40 to 167°F) Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000 IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))		Environmental
Operating Humidity 5% to 95% Non-condensing Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000 IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8 (PF IEC/EN 61000-4-11(DIP))	-40 to 185°F)	Storage Temperature
Regulatory Approvals EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EMS EN 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-8(PF IEC/EN 61000-4-11(DIP))	-40 to 167°F)	Operating Temperature
EMC CE EMC (EN 55024, EN 55032), FCC Part 15 B EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-2(ESD),IEC/EN 61000-4-3 (RS), IEC/EN 61000 EMS IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PF IEC/EN 61000-4-11(DIP))	lon-condensing	Operating Humidity
EMI EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A EN 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000 IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PF IEC/EN 61000-4-11(DIP))		Regulatory Approvals
EMS 1EC/EN 61000-4-2(ESD),1EC/EN 61000-4-3 (RS), 1EC/EN 61000-4-8 (PF 1EC/EN 61000-4-5 (Surge), 1EC/EN 61000-4-6 (CS), 1EC/EN 61000-4-8(PF 1EC/EN 61000-4-11(DIP))	55024, EN 55032), FCC Part 15 B	EMC
EMS IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PF IEC/EN 61000-4-11(DIP))		EMI
Shock IEC 60068-2-27	0-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF),	EMS
Free Fall IEC 60068-2-31		
Vibration IEC 60068-2-6 Safety EN 60950-1	-0	
MTBF 665276hrs		

