



User Manual

Industrial Switch
Industrial Power Supply
Solar Powered PoE Switch
Industrial Water-resistant Box



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Foreword

General

This Manual contains explanations about the features and physical structure of Industrial switches and other products (hereinafter referred as "The Device")

Safety Instructions

The following signs may appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or other unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information to emphasize points in the main text.

About the Manual

The manual is for reference only. If there is inconsistency between the manual and the actual device, the actual device shall prevail.

1. We are not liable for any loss or property damage caused by operating the device differently than described in this manual.
2. The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, refer to the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
3. All the designs and software are subject to change without prior written notice. The device updates might bring some differences between the actual device and the manual. Please contact the customer service or your distributor for the latest update and supplementary documentation.
4. There still might be deviations in technical data, functions and operation description, or errors in print. If there is any doubt or dispute, we reserve the right of final explanation.
5. Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
6. All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
7. Please visit our website contact the supplier or customer service if there is any problem occurring when using the device.
8. If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This manual helps you to use the device properly. To avoid any danger and property damage, read the manual carefully before using the device. It is highly recommended that you keep this manual stored in a safe place for future reference.

Operating Requirements

1. Do not expose the device directly to the sunlight and keep it away from heat sources.
2. Do not install the device in damp environments and avoid dust and soot.
3. Make sure the device is installed in horizontal position, on solid and flat surface.
4. Avoid liquid spattering on the device. Do not place any liquid container on top or near the device.
5. Install the device in well-ventilated environment. Do not block the air vents of the device.
6. Use the device at rated input and output voltages.
7. Never disassemble the device. There is risk of electric shock!
8. Transport, use, and store the device in allowed ranges of humidity and temperature.

Power Supply Requirements

Always use the power cords and power adapters provided with the device. If the power adapter or power cord gets damaged, please ask your distributor for a replacement. We assume no responsibility for damage and problems caused by the use of non-standard power adapters and power cords.

Main Characteristics

1. Standard industrial design, stable Operation for Industrial Demanding
2. Network standard followed by all PoE devices is: IEEE802.3af/at/bt.
3. Standard DIN-rail mounting, saving in space, flexible in installation.
4. AI Watchdog Function offers: detection front-end PoE cameras and PD, automatic detection, automatic restart.
5. 6KV lightning protection, 8KV surge protection, anti-reverse connection, over-current protection, over-voltage protection, over-temperature protection, short circuit protection.
6. Maximum output power of the bt ports is 60W. These ports can be used to power hi-power equipment.
7. Zero configuration feature gives the possibility for the device to sense if the appliance connected to it needs PoE and the wattage needed.

Industrial-grade Protection

- *6KV Lightning & 8KV ESD Protection;
- *Reverse connection protection;
- *Short circuit protection;
- *Surge protection;
- *IP40 protection;
- *Anti-electromagnetic interference;



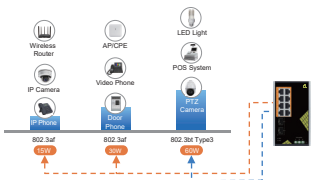
Wide Working Temperature

- *Aluminium alloy shell, superb in hot dissipation;
- *Working temperature varies from -40°C~70°C,
- No fair of hard industry environment.



Support of bt 60W High Power (Part of model)

- *60W high-power ports meet the needs of more and more high-power powered devices.



AI Watchdog Function (Part of model)

Auto-detect and restart an IP camera if the camera is not responding



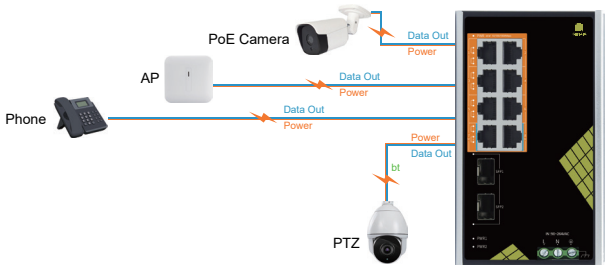
Installation Guidelines

Installation Steps:

Please follow installation steps as below:

1. Please turn off the signal source and the device's power, installation with power on may damage the device.
2. Use 8pcs network cables to connect 8pcs IP cameras with the product's 1~8 RJ45 Ethernet ports;
3. Use another network cable or (optical fiber) to connect switch's UPLINK port with NVR or computer.
4. Connect switch with power adapter.
5. Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system.
6. Make sure the power supply of each network device works properly.

Installation Diagram:

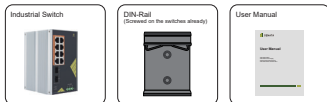


Caution: ⚠

1. To protect safety non-professionals are not allowed to open the casing of product;
2. Please be careful of the risk of strong current and security protection when products carry power;
3. Please select the right power adaptor for PoE switch, before using please confirm if it is accord with the requirements of PoE switch;
4. Please don't use PoE switch in humid environment, avoiding breakdowns caused by waterentering the device;
5. Please turn on the device after the circuit connected;
6. Please don't plug-in and plug-out the connection cable when product is carrying on power;
7. Please don't use PoE switch in dusty and EME place;
8. Please don't put heavy things on PoE switch, to prevent accident;
9. Please don't exceed the maximum output power of PoE switch when connecting multiple PD device;
10. Suggested for indoor use, for outdoor please refer waterproof model, if you want to use for outdoor, Please use waterproof model No..

Items List

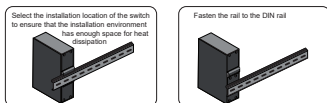
Industrial Switch Items List



Industrial Power Supply Items List



DIN-Rail Installation



Industrial Water-resistant Box Items List

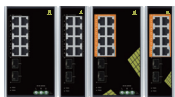


Model classification

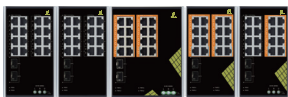
8 Ports



10 Ports



18 Ports



26 Ports



9 Ports



Power Supply



130W 260W 520W

Industrial Water-resistant Box



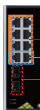
Port Description

8 Ports

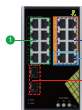


9 Ports

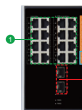
10 Ports



18 Ports



26 Ports



① -1000Mbps Ports

② -1000Mbps PoE Ports

③ -60W power supply Ports

④ -1000Mbps SFP Ports

⑤ -100Mbps PoE Ports

⑥ -100Mbps Uplink Port

Specification

Industrial Switch Series 01

Model	GNT-IG1008GL-AC 	GNT-IG1008GL-DC 
Ports	(1~8):10/100/1000Mbps ports (RJ45),	
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth:16Gbps	
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 11.9Mpps	
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T	
	IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
Power Support	Power Input: AC 90~264V, Totals $\leq 15W$	Power Input: DC 12~52V Dual Redundancy, Totals $\leq 15W$
Protection Level	Protection Level: IP40; Lightning Protection:6KV; ESD Protection: 8KV	
Physical Specifications	Size(H*D*W): 145*110*51mm	
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan-free design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 02

Model	GNT-IG1008GP-AC 	GNT-IG1008GP-DC 
Ports	PoE (1~6):10/100/1000Mbps PoE ports (RJ45), PoE (7~8):10/100/1000Mbps PoE ports (RJ45); Support bt 60W High Power	
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth:16Gbps	
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 11.9Mpps	
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
	IEEE 802.3af/at/bt Power over Ethernet	
Power Support	Power Input: AC 90~264V, Total $\leq 130W$,	Power Input: DC 48~52V, Dual Redundancy, Total $\leq 130W$,
	AI Watchdog: Port 1~8	
	Power Output: PoE1~6 Port:1/2(+52V),3/6(GND) $\leq 30W$ PoE7~8 Port:1245(+52V),3678(GND) Compatible1/2(+52V),3/6(GND) $\leq 60W$	
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV	
Physical Specifications	Size(H*D*W): 145*110*51mm	
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan-free design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 03

Model	GNT-IG1210GF-AC 	GNT-IG1210GF-DC 
Ports	(1~8):10/100/1000Mbps ports (RJ45), (1~2):10/100/1000Mbps SFP ports	
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth:20Gbps	
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 14.88Mpps	
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port; 1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T	
	IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
Power Support	Power Input: 90~264VAC, DC12~52V, Triple Redundancy, Total $\leq 15W$	Power Input: DC 12~52V, Dual Redundancy, Total $\leq 15W$
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV	
Physical Specifications	Size(H*D*W): 145*110*88mm	Size(H*D*W): 145*110*51mm
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan-free design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 04

Model	GNT-IG1210FP-AC 	GNT-IG1210FP-DC 
Ports	PoE (1~6):10/100/1000Mbps PoE ports (RJ45), PoE (7~8):10/100/1000Mbps PoE ports (RJ45); Support bt 60W High Power SFP(1~2):10/100/1000Mbps SFP ports	
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth:20Gbps	
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 14.88Mpps	
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
	IEEE 802.3af/at/bt Power over Ethernet	
Power Support	Power Input: 90~264VAC, DC48-52V input, Triple Redundancy, Totals130W,	Power Input: DC 48~52V Dual Redundancy, Totals130W,
	AI Watchdog: Port 1~8	
	Power Output: PoE1~6 Port:1/2(+52V),3/6(GND) $\leq 30W$ PoE7~8 Port:1245(+52V),3678(GND) Compatible1/2(+52V),3/6(GND) $\leq 60W$	
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV	
Physical Specifications	Size(H*D*W): 145*110*88mm	Size(H*D*W): 145*110*51mm
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan-free design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 05

Model	GNT-IG1218GF-AC 	GNT-IG1218GF-DC 
Ports	(1~16):10/100/1000Mbps ports (RJ45), (1~2):10/100/1000Mbps SFP ports	
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth:36Gbps	
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 26.78Mpps	
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T	
	IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
Power Support	Power Input: AC 90~264V, DC 12~52V, Triple Redundancy, Totals30W	Power Input: DC 12~52V, Dual Redundancy, Totals30W
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV	
Physical Specifications	Size(H*D*W): 145*110*88mm	
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan-free design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 06

Model	GNT-IG1218FP-AC 		GNT-IG1218FP-DC 
Ports	PoE (1~6), (9~14):10/100/1000Mbps PoE ports (RJ45), PoE (7~8),(15~16):10/100/1000Mbps PoE ports (RJ45); Support bt 60W High Power SFP(1~2):10/100/1000Mbps SFP ports		
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex		
Transmission Distance	130m		
Performance Specification	Bandwidth:36Gbps		
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)		
	MAC address table: 8K		
	Packet forwarding rate: 26.78Mpps		
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port		
Networking Standard	IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX		
	IEEE 802.3ab 1000BASE-T		
	IEEE 802.3x Flow Control		
	IEEE 802.3af/at/bt Power over Ethernet		
Power Support	Power Input: AC90~264V, DC48~52V, Triple Redundancy, Totals $\leq$ 260W,	Power Input: DC 48~52V, Dual Redundancy, Totals $\leq$ 260W,	
	AI Watchdog: Port 1~16		
	Power Output: PoE1~6,9~14 Port:1/2(+52V),3/6(GND) $\leq$ 30W; PoE7~8,15~16 Port:1245(+52V),3678(GND) Compatible1/2(+52V), 3/6(GND) $\leq$ 60W		
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV		
Physical Specifications	Size(H*D*W): 145*110*124mm	Size(H*D*W): 145*110*88mm	
Working Environment	Operating Temperature: -40°C~70°C		
	Storage Temperature: -45°C~75°C		
	Relative Humidity: 5%~90% Non-condensing		
	Heat dissipation mode: Fan design		Heat dissipation mode: Fan-free design
Certification	CE		
	FCC		
	RoHS 2.0		
Warranty	Whole Device: 1 year		
Package Content	User Manual		

Industrial Switch Series 07

Model	GNT-IG1218F8-AC 	GNT-IG1226F8-AC 
Ports	(1~8):10/100/1000Mbps ports (RJ45), PoE(9~14):10/100/1000Mbps PoE ports (RJ45), PoE(15~16):10/100/1000Mbps PoE ports (RJ45); Support bt 60W High Power SFP(1~2):10/100/1000Mbps SFP ports	(1~16):10/100/1000Mbps ports (RJ45), PoE (17~22):10/100/1000Mbps ports (RJ45), PoE(23~24):10/100/1000Mbps PoE ports (RJ45); Support bt 60W High Power SFP(1~2):10/100/1000Mbps SFP ports
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth:36Gbps	Bandwidth:52Gbps
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 26.78Mpps	Packet forwarding rate: 38.68Mpps
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
	IEEE 802.3af/at/bt Power over Ethernet	
Power Support	Power Input: AC 90~264V, DC 48~52V, Triple Redundancy, Totals130W,	Power Input: AC 90~264V, DC 48~52V, Triple Redundancy, Totals130W,
	AI Watchdog: Port 9~16	AI Watchdog: Port 17~24
	Power Output: PoE 9~14 Port:1/2(+52V), 3/6(GND) $\leq 30W$; PoE15~16 Port:1245(+52V), 3678(GND) Compatible1/2(+52V),3/6(GND) $\leq 60W$	Power Output: PoE 17~22 Port:1/2(+52V), 3/6(GND) $\leq 30W$; PoE 23~24 Port:1245(+52V), 3678(GND) Compatible1/2(+52V),3/6(GND) $\leq 60W$
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV	
Physical Specifications	Size(H*D*W): 145*110*88mm	Size(H*D*W): 145*110*124mm
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 08

Model	GNT-IG1226GF-AC 	GNT-IG1226GF-DC 
Ports	(1~24):10/100/1000Mbps ports (RJ45), (1~2):10/100/1000Mbps SFP ports	
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex	
Transmission Distance	130m	
Performance Specification	Bandwidth: 52Gbps	
	Network Latency (10 to 1000Mbps): $\leq 16\mu s$ (use the 64byte package size)	
	MAC address table: 8K	
	Packet forwarding rate: 38.68Mpps	
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port; 1488000pps the most for 1000M port	
Networking Standard	IEEE 802.3i 10BASE-T	
	IEEE 802.3u 100BASE-TX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3x Flow Control	
Power Support	Power Input: AC 90~264V, DC 12~52V, Dual Redundancy, Totals45W	Power Input: DC 12~52V, Dual Redundancy, Totals45W
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV	
Physical Specifications	Size(H*D*W): 145*110*124mm	
Working Environment	Operating Temperature: -40°C~70°C	
	Storage Temperature: -45°C~75°C	
	Relative Humidity: 5%~90% Non-condensing	
	Heat dissipation mode: Fan-free design	
Certification	CE	
	FCC	
	RoHS 2.0	
Warranty	Whole Device: 1 year	
Package Content	User Manual	

Industrial Switch Series 09

Model	GNT-IG1226FP-AC		GNT-IG1226FP-DC	
Ports	PoE (1~6), (9~14), (17~22):10/100/1000Mbps PoE ports (RJ45), PoE (7~8),(15~16),(23~24):10/100/1000Mbps PoE ports (RJ45); Support bt 60W High Power SFP(1~2):10/100/1000Mbps SFP ports			
Transmission Rate	1000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex			
Transmission Distance	130m			
Performance Specification	Bandwidth:52Gbps			
	Network Latency (10 to 1000Mbps): ≤16μs (use the 64byte package size)			
	MAC address table: 8K			
	Packet forwarding rate: 38.68Mpps			
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;1488000pps the most for 1000M port			
Networking Standard	IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX			
	IEEE 802.3ab 1000BASE-T			
	IEEE 802.3x Flow Control			
	IEEE 802.3af/at/bt Power over Ethernet			
Power Support	Power Input: AC 90~264V, Totals390W		Power Input: DC 48~52V Dual Redundancy, Totals390W	
	AI Watchdog: Port 1~24			
	Power Output: PoE1~6,9~14,17~22 Port:1/2(+52V),3/6(GND)≤30W; PoE7~8,15~16,23~24 Port:1245(+52V),3678(GND) Compatible 1/2(+52V),3/6(GND)≤60W			
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV			
Physical Specifications	Size(H*D*W): 145*110*160mm		Size(H*D*W): 145*110*124mm	
Working Environment	Operating Temperature: -40°C~70°C			
	Storage Temperature: -45°C~75°C			
	Relative Humidity: 5%~90% Non-condensing			
	Heat dissipation mode: Fan design		Heat dissipation mode: Fan-free design	
Certification	CE			
	FCC			
	RoHS 2.0			
Warranty	Whole Device: 1 year			
Package Content	User Manual			

Industrial Power Supply

Model	GNT-IP52130WS 	GNT-IP52260WS 	GNT-IP52520WS 
Power Output	DC 52V 2.5A (Single-Output)	DC 52V 2.5A (Dual-Output)	DC 52V 2.5A (Four-Output)
Power	130W	260W	520W
Ripple & Noise	Peak ≤1% (Typical 200mVp-p)		
Time of Start-up & Rise	600ms, 20ms	700ms, 20ms	800ms, 20ms
Hold Time	60ms/12ms(Full Load)		
Power Input	90~264VAC 50/60Hz		
Input Current(Max)	1.5A	3A	6A
Average Output Efficiency	90%		
Hipot Test	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Insulation Resistance Test	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70%RH		
Circuit Protection	Support		
Over Current Protection	Support		
Over Temperature Protection	Support		
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV		
Physical Specifications	Size(H*D*W): 145*110*51mm		Size(H*D*W): 145*110*88mm
Working Environment	Operating Temperature: -40°C~70°C		
	Storage Temperature: -45°C~75°C		
	Relative Humidity: 10%~90% Non-condensing		
	Heat dissipation mode: Fan design	Heat dissipation mode: Fan design	
Certification	CE		
	FCC		
	RoHS 2.0		
Warranty	Whole Device: 1 year		
Package Content	User Manual		

Solar Powered PoE Switch

Model	GNT-IS09EDL-P 
Ports	PoE (1~7):10/100Mbps PoE ports (RJ45); PoE (8):10/100Mbps PoE ports (RJ45),Support bt 60W High Power; LAN (9):10/100Mbps uplink ports (RJ45);
Transmission Rate	100Mbps Full Duplex; 10 or 100Mbps Half Duplex
Transmission Distance	100Mbps/10Mbps,Auto-Adaption 250m
Performance Specification	Bandwidth:1.8Gbps
	Network Latency (10 to 100Mbps): $\leq 16\mu s$ (use the 64byte package size)
	MAC address table: 2K
	Packet forwarding rate: 1.33Mpps
	The Frame Filter & Transmission Rate: 14800pps the most for 10M port, 148800pps the most for 100M port;
Networking Standard	IEEE 802.3i 10BASE-T
	IEEE 802.3u 100BASE-TX; IEEE802.3az at 100M Full Duplex
	IEEE 802.3x Flow Control
	IEEE 802.3af/at/bt Power over Ethernet
Power Support	Power Input: DC 12~52V Dual Redundancy, Totals $\leq 1.7W$; PoE Totals $\leq 80W$
	Power Output: PoE1~8 Port: 1245(+52V), 3 678(GND) PoE1~7 Port: 1/2(+52V), 3/6(GND) Compatible 45 (52V) 78(GND) $\leq 30W$; PoE8 Port: 1/2 45(+52V), 3/6 78(GND) $\leq 60W$; Compatible 1/2(+52V), 3/6(GND) $\leq 30W$;
Protection Level	Protection Level:IP40; Lightning Protection:6KV; ESD Protection:8KV
Physical Specifications	Size(H*D*W): 145*110*51mm
Working Environment	Operating Temperature: -40°C~70°C
	Storage Temperature: -45°C~75°C
	Relative Humidity: 5%~90% Non-condensing
	Heat dissipation mode: Fan-free design
Certification	CE
	FCC
	RoHS 2.0
Warranty	Whole Device: 1 year
Package Content	User Manual

Industrial Water-resistant Box



GNT-IDC45F2



GNT-IDC45F4



GNT-IDC45F6

Model			
Overall Size(W*H*D)	270*285*188mm	270*285*188mm	300*394.5*212.5mm
Weight(kg)	4.55	4.79	5.72
Thickness	1.0mm		
Material	CPCC		
Color	Grey		
Protect Level	IP65, IK10		
DIN-Rail	Yes		
Latch	Yes		
Waterproof rubber stopper	Yes		
Miniature Circuit breaker	—	CHINT:NXB-63 C16 2P	CHINT:NXB-63 C16 2P
Fan	—	Yes	Yes
Water-resistant connector	—	—	Yes
Hoop Metal Tie	Optional	Optional	Yes
Surface Treatment	Cleaning, polishing, surface treatment, electrostatic spraying, Stoving varnish		
Installation	Pole/Wall/Floor-Mounted		
Aplication	Junction, Distribuion, Electrical, battery, Control, Monitoring ect, Outdoor water-risistant enclosure box		

Troubleshooting

Please check the following if the device isn't operating as expected

1. Confirm that all installation steps were followed as described above in this manual
2. Confirm that the ethernet cables and connectors are terminated according to the EIA/TIA568A or 568B industry standards
3. Power of af/at ports can't exceed 30W and power of bt ports can't exceed 60W so make sure that all devices are connected accordingly to their power rating
4. Try a working device to check if the problem is happening inside the device
5. If the problem persists please contact will us.

RJ 45 Making Method

Tools to make RJ45: wire crimper, network tester;

Wire sequence of RJ45 plug should conform with EIA/TIA568A or EIA/TIA568B standard;

1. Strip off the 2cm insulating layer to expose the 4 pairs UTP cable;
2. Separate the 4 pairs of UTP cable and straighten them;
3. Line up the 8 separated pieces of cables per EIA/TIA 568A or 568B;
4. Cut the cables to leave 1.5cm bare wire and make sure 8 thread ends are flat and neat;
5. Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
6. Then use wire crimper to crimp the RJ45;
7. Do the above 5 steps again to make the another end of the twisted pair and make sure consistent cable order between two ends;
8. Using network tester to test the cable.

pin color	
1	white/green
2	green
3	blue
4	white/orange
5	white/blue
6	white/brown
7	orange
8	brown



EIA/TIA 568A

pin color	
1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



EIA/TIA 568B



Notice

Make sure both ends use EIA/TIA568A connection method when using RJ45 port.
Make sure both ends use EIA/TIA568B connection method when using RJ45 port.

After-sales Service

Warranty card

The following situations are not covered by free maintenance, the company can provide paid service for out-of-warranty devices:

- 1.The Device failure or damage is caused by installation, use, maintenance and storage not according to the instructions in this manual.
- 2.Out of the warranty period.
- 3.Alter or tear up of the product barcode by unauthorized personnel.
- 4.The product barcode or model number on the product warranty card does not match with the product itself.
- 5.Modification of firmware or disassembly and repair from unauthorized personnel.
- 6.Damage caused from accidental factors or human actions, such as exposing to strong light sources, inappropriate voltage, high temperature, water ingress, mechanical damage, falling, severe oxidation and rusting of the product etc.
- 7.Damage caused by delivery, loading and unloading during maintenance
- 8.Product failure or damage caused by force majeure such as earthquake, fire, flood, lightning.
- 9.All other failures or damage that are not caused by the product's own design, technology, manufacturing, quality and other issues.

Device after-sales service period and policy:

Product Category	Commitment Policy	Service Method
Switch/Power Supply/ Waterproof Box	One year warranty	Customer delivery for repair



Notice

- 1.This warranty and replacement service is limited to the main device. Accessories such as packaging, various connection cable, software products and technical equipment are not covered.
- 2.During the warranty period (up to 1 year after the moment of purchase) the product will be checked by the authorized personnel in the distributor office. After the issue is confirmed the product will be repaired. If the issue can't be repaired, a replacement new device or similar model will be provided to the client. The old device will be property of the distributor. If not issue is detected in the device that the client delivered, that same device will be given back to the client after checkup
- 3.When asking for warranty, original invoice and warranty card must be provided to the distributor personnel. The original invoice and warranty card can be returned after a photocopy of it is made. If paid service will be provided, a warranty of 3 months will be applied for the repaired device
- 4.For a free warranty replaced device or repaired device, the original warranty period will remain a cive plus the days that the device remained in the distributor's premises.
- 5.All shipping costs, removal and installation of the device, delivery of the device to the distributor's premises are covered by the client.

User stub

In order to protect your rights, please fill in it carefully and keep it properly as a proof of repair:

Dealers Information	Model		Contact Number	
	Serial Number		Sale Date	
User Information	User Name		Contact Number	
	Address		E-mail	

Idea Transmission Navigator

