

## 4GE+1GF Managed Industrial Smart Ethernet Box

Model: SBOX1401FG-I



The SBOX1401FG-I Is An Outdoor Industrial PoE Switch With 4× Gigabit PoE Ports And 1× Gigabit SFP Slot, Operating From -40°C To 75°C. With IP-Rated Protection And Lightning Protection, It Suits Rail Transit, Smart City, Transportation, And Outdoor Surveillance. Smart DIP Switches Enable Watchdog, VLAN, Port Isolation, And QoS.

- 4GE+1GF Industrial PoE Switch Smart Ethernet Box
- With the Dial code switch, Vlan/Watchdog/Port Isolation/PP+QoS
- Input voltage: AC100-240V, 50/60Hz
- Surge Proof: (8KV/6KV); ESD:(8K/15K)
- IP protection level:IP55
- -40°C~75°C working temperature
- Include 150W power supply

## Interfaces

Model	SBOX1401FG-I
Interface	4*10/100/1000Base-T PoE ports (Data/Power) 1*100/1000Base-X uplink SFP fiber slot port (Data)
Ethernet Port	Port 1-4 support 10/100/1000Base-TX, auto-sensing, Full/half duplex MDI/MDI-X self-adaption
DIP Switch	AI Watchdog, Port isolation, VLAN, Port Priority +QOS

## PoE

PoE Standard	IEEE802.3af/at
SFP Port	Gigabit SFP optical fiber port, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Power Adaptor	150 W

## Physical Characteristics

LED Indicators	PWR, OPT, NMC, ALM
Power Interface	AC Input
Optical Cable	Multimode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Network Topology	Support Star topology, Bus topology, Tree Topology
Input voltage	AC100-240V, 50/60Hz
Total Power consumption (POE)	< 126 W
Voltage Alarm	Support

## Layer 2 Switching

Switching capacity	14 G
Packet forwarding rate	10.416 Mpps
MAC address table	8 K
Buffer	2 M
Forwarding delay	<5 us
MDX/MIDX	Support
Jumbo Frame	Support 10K Bytes
WatchDog	Support
Port Isolation	Support

## Environment

Operating temperature	-40°C~+75°C The device is tested for 4 hours at temperatures in 85°C
Storage temperature	-40°C~+85°C
Relative humidity	5%~95% non-condensing
Thermal methods	Auto Fans Cooling
MTBF	100,000 hours

## Cabinet Description

Product size	220X230X300mm
Material	High-quality galvanized sheet, thickness 1.2mm box mounting ears thickness 1.5mm
Weight	Net weight: 7.25KG, Gross weight: 8.25KG
Box lock	Triangle lock
Door	The door has built-in waterproof rubber strips and built-in reinforcing ribs
Bottom of the box	The diameter of the cable entry hole at the bottom of the box is 50mm, and there is an air inlet hole at the bottom of the box (insect-proof net welded inside)
Fan	AC220V with temperature control, 3000±10% RFM, air volume 90CFM, 92*92*25mm, line length 300mm
Optical fiber box	4-port SC fiber flange, with 8-core fiber box
Air breaker	It has short-circuit protection, overload protection and isolation functions and has thermal-magnetic tripping characteristics C-shaped curve (5In~10In)

## Lightning protector

Rated operating voltage	220V
Maximum continuous operating voltage	385V
Rated discharge current (8/20 µs)	20KA
Maximum discharge current (8/20 µs)	40KA
Limit voltage	≤1.8KV
Indication	Green: Normal Red: Failure

## EMC & Ingress Protection

IP Level	IP55
Surge protection of Power	IEC 61000-4-5 Level X (8KV/6KV)
Surge protection of Ethernet port	IEC 61000-4-5 Level X (8KV/6KV)
RS	IEC 61000-4-3 Level 3 (10V/m)
EFI	IEC 61000-4-4 Level 3 (1V/2V)
CS	IEC 61000-4-6 Level 3 (10V/m)
PFMF	IEC 61000-4-8 Level 4 (30A/m)
DIP	IEC 61000-4-11 Level 3 (10V)
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Installation Method	Wall Mounting/Pole Mounting
IP Level	IP55



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