



Industrial Grade Fiber media converters

1-port 10/100Mbps RJ45 + 1-port 100Mbps SC

1-port 10/100/1000Mbps RJ45 + 1-port 1000Mbps SC Fiber

Dual and Single Fiber



Overview

NuFiber's Industrial Ethernet switch with 1 Tx Ethernet port and 1 Fx SC Fiber port, for connecting with devices like computer, switch, hub, server, etc, as well as powering network camera, industrial VoIP phone, wireless AP and other devices. Specially designed for harsh outdoor applications. Its 3KV network port surge protection can adapt to harsh outdoor environment and ensure the reliability of the uninterrupted PoE system. Power input also chooses industry-standard types of power.



Features

- 1 port 10/100/1000Mbps RJ45 with Auto Uplink™, 1 port 1000Mbps SC
- Automatic MAC address learning and aging
- Automatically support IGMP (Multicasting)
- 10/100/1000Mbps Auto-negotiation , auto-MDI-MDI-X
- LED indicators for monitoring power/link/activity
- Supports 10/100/1000Mbps-Full/Half-duplex
- Supports Wall-mount and DIN-Rail installation for lightning protection
- Super lightning protection, IP40 protection.
- Excellent heat elimination without cooling fan.
- Redundant dual DC power inputs.
- Redundant Power Inputs
- Apply to Urban Intelligent Traffic Monitoring System (ITS), Safe City.
- Harsh industrial environment or higher requirement
- -40°C-85°C operating temperature range.
- 5-Year Warranty

Technical Specification

Product Name	1 Port 10/100/1000Base Industrial Ethernet Switch
Product Model	NF511x-SC20 Dual Fiber and NF511x-SC20A/B Single Fiber
Interface	1x 10/100/1000Base-T RJ45 port + 1x 1000Mbps SC Fiber
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;IEEE802.3u;100Base-TX/FX;
	IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;
Network Media	10BASE-T: Cat3,4,5 UTP(≤100 meter)
	100BASE-TX: Cat5 or later UTP(≤100 meter)
	1000BASE-TX: Cat6 or later UTP(≤100 meter)



Specification	Packet Buffer Memory: 1M
	Packet Forwarding Rate:1488000pps/port
	MAC Address Table: 8K
Forwarding Mode	Store-and-Forward
Protection	Lightening protection, IP40 protection
LED Indicators	Power: PWR; Link; Link/Act
Power Supply	Input Power: 2x10~58VDC (Terminal Block)

Other Specifications

Working Environment	Working temperature: -40~85℃ ; Storage temperature: -45~85℃
	Relative Humidity: 5%~95 %(no condensation)
Industry Standard	FCC CFR47 Part 15,EN55022/CISPR22, Class A EMS:
	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)
Shell	IP40 protect grade, metal shell
Installation	DIN-Rail or Wall mounts
Packing List	1×Industrial Ethernet Switch (plus terminal block)
	1×User Manual/Certificate of quality/Warranty card
	1×DIN-Rail mounting kit
Certification	CE mark, commercial; FCC Part 15 Class B; VCCI Class B

	EN 55022 (CISPR 22), Class B
MTBF	300,000 hours
Weight & Size	Product Weight: 0.6KG
	Packing Weight: 1.1 KG
	Product size (L×W×H): 118mm× 86mm× 34mm
	Packing size(L×W×H): 183mm x 131mm x 100mm
Warranty	5-years

Typical Application



Ordering information

NF511F-SC20	Industrial 10/100M 1 fiber port + 1 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF511G-SC20	Industrial 10/100/1000M 1 fiber port + 1 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF512F-SC20	Industrial 10/100M 1 fiber port + 2 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF512G-SC20	Industrial 10/100/1000M 1 fiber port + 2 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF514F-SC20	Industrial 10/100M 1 fiber port + 4 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF514G-SC20	Industrial 10/100/1000M 1 fiber port + 4 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF524F-SC20	Industrial 10/100M 2 fiber port + 4 RJ45 port, SC, dual fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter



NF511F-SC20A/B	Industrial 10/100M 1 fiber port + 1 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF511G-SC20A/B	Industrial 10/100/1000M 1 fiber port + 1 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF512F-SC20A/B	Industrial 10/100M 1 fiber port + 2 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF512G-SC20A/B	Industrial 10/100/1000M 1 fiber port + 2 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF514F-SC20A/B	Industrial 10/100M 1 fiber port + 4 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF514G-SC20A/B	Industrial 10/100/1000M 1 fiber port + 4 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter
NF524F-SC20A/B	Industrial 10/100M 2 fiber port + 4 RJ45 port, SC, single fiber SM 20km, DIN Rail type, DC10~47V, exclude power adapter