

Industrial Ethernet Switches



Features

NS-115 SERIES 5-Port 10/100 Switch with Fiber Connection	NS-105/NS-108 Industrial Ethernet Switch
Complies with IEEE-802.3 10Base-T and IEEE-802.3u 100Base-FX standards	Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, and IEEE 802.3x flow control standards
Provides 4 10/100Mbps switched ports and 1 100Base-FX switched port	Provides 5 10/100Mbps switched ports (NS-105) Provides 8 Port (NS-108)
Supports duplex type selector for setting the fiber port to either full or half duplex	Full/half duplex operation for each port
Full/half duplex operation for each port	Supports 8K MAC addresses
Support 1K MAC addresses and automatic MAC address learning and aging	Non-blocking switching
Non-blocking switching fabric	Compact design with small footprint
Supports full-duplex flow control(IEEE-802.3x)	
Compact metal chassis design	

Specifications

	NS-115 SERIES	NS-105
Port configuraton	Multimode ST,Multimode SC Multimode 62.5/125um fiber cable(max.distance:2km)	Auto-negotiation for connection speed and duplex type
Connector	Shielded RJ-45 jack 10Base-T Cat.3,4,5 UTP cable(100m max.) 100Base-TX Cats 5 UTP cable(100m max.)	10Base-T Cat.3,4,5 UTP cable(100m max.) 100Base-T Cat.5 UTP cable(100m max.)
Cables	Unicast/Multicast/Broadcast address:1K MAC addresses per unit	Unicast/Multicase/Broadcast address:8K MAC addresses per unit
Filtering address	14,880pps for Ethernet, 148,800pps for Fast Ethernet	14,880pps for Ethernet, 148,800pps for Fast Ethernet
Filtering rate	14,880pps for Ethernet, 148,800pps for Fast Ethernet	14,880pps for Ethernet, 148,800pps for Fast Ethernet
RAM Buffers	128KB	2MB
LEDs	-Power status -10/100,Link/Activity, Duplex/Collision status for each TP port -Link/Activity, Duplex/Collision status for fiber port	-Power status -10/100,Link/Activity, Duplex/Collision status for each port
Environment	Temperature: 0℃ to 50℃ Relative Humidity : 10% to 90% non-condensiong	Temperature: 0℃ to 60℃ Relative Humidity : 10% to 90% non-condensiong
Dimensions	160mm x 70mm x 125mm	160mm x 70mm x 125mm
Power	AC85~230V DC10~30V 7W	DC10~30V 7W

Ordering Information

Model	Description	Fiber Mode	Connector	Power input
NS-115FT	1 port Fiber Optic ,4 port 10/100M RJ-45 connector	MultiMode	ST	DC10~30V
NS-115FT-AC	1 port Fiber Optic ,4 port 10/100M RJ-45 connector	MultiMode	ST	AC85~230V
NS-115FC	1 port Fiber Optic ,4 port 10/100M RJ-45 connector	MultiMode	SC	DC10~30V
NS-115FC-AC	1 port Fiber Optic ,4 port 10/100M RJ-45 connector	MultiMode	SC	AC85~230V
NS-105	Industrial Ethernet Switch			

Industrial Ethernet Fiber Converter



NC-10TF



NC-200TF

Features

- ¥ Complies with 802.3 10Base-T and 10Base-FL standards
- ¥ Complies with 802.3 100Base-T and 100Base-FL standards
- ¥ Provides media conversion from UTP to Fiber Optic media types
- ¥ extends network span from 2km(multimode fiber) up to 14km(single mode)
- ¥ Provides a push button to set crossover function for the TP port
- ¥ Interoperable with other 10Base media converters, 10Base, 10/100Base-T NICs, hubs or switches
- ¥ Provides LEDs for easy network monitoring
- ¥ Supports a variety of fiber optic connectors including duplex multimode ST, SC

Specifications

	NC-200TF Series	NS-10TF Series
Standard	IEEE-802.3 Ethernet 100Base-T and 100Base-FL	IEEE-802.3 Ethernet 10Base-T and 10Base-FL
Fiber Port	MultiMode ST MultiMode SC	MultiMode ST MultiMode SC
Fiber Cable	MultiMode 850nm 62.5/125um fiber cable(max.distance:2km)	MultiMode 850nm 62.5/125um fiber cable(max.distance:2km)
TP Port Cable	Shielded RJ-45 jack Cat.5 UTP cable(100m max.)	Shielded RJ-45 jack Cat.5 UTP cable(100m max.)
LEDs	-Power status -Link and receive status for TP port -Link and receive status for fiber port	-Power status -Link and receive status for TP port -Link and receive status for fiber port
Environment	Temperature: 0 $^{\circ}$ C to 50 $^{\circ}$ C Relative Humidity : 10% to 90% non-condensing	Temperature: 0 $^{\circ}$ C to 50 $^{\circ}$ C Relative Humidity : 10% to 90%
Dimensions	150mm x 26mm x 125mm	150mm x 26mm x 125mm
Power	DC10~30V	DC10~30V

Ordering Information

Model	Description	Fiber Mode	Connector	Power input
NC-200TFT	100M Fiber Optic to 100M RJ-45 Connector	MultiMode	ST	DC10~30V
NC-200TFC	100M Fiber Optic to 100M RJ-45 Connector	MultiMode	SC	DC10~30V
NC-10TFT	10M Fiber Optic to 10M RJ-45 Connector	MultiMode	ST	DC10~30V
NC-10TFC	10M Fiber Optic to 10M RJ-45 Connector	MultiMode	SC	DC10~30V

Ordering INFORMATION

Wincon-8000 Compact Embedded Controller		I-8052 / I-8052-G	P3-23
W-8331	P2-4	I-8053 / I-8053-G	P3-23
W-8731	P2-4	I-8054 / I-8054-G	P3-23
W-8337	P2-5	I-8055 / I-8055-G	P3-23
W-8737	P2-5	I-8056 / I-8056-G	P3-23
W-8339	P2-5	I-8057 / I-8057-G	P3-24
W-8739	P2-5	I-8058 / I-8058-G	P3-24
I-8000 Compact Embedded Controller		I-8060 / I-8060-G	P3-24
I-8410	P3-7	I-8063 / I-8063-G	P3-24
I-8411	P3-7	I-8064 / I-8064-G	P3-24
I-8810	P3-7	I-8065 / I-8065-G	P3-25
I-8811	P3-7	I-8066 / I-8066-G	P3-25
I-8430/I-8430-G	P3-8	I-8068 / I-8068-G	P3-25
I-8431/I-8431-G	P3-8	I-8069 / I-8069-G	P3-25
I-8830/I-8830-G	P3-8	I-8017H / I-8017H-G	P3-26
I-8831/I-8831-G	P3-8	I-8017MP / I-8017MP-G	P3-26
I-8KE4	P3-11	I-8017LP / I-8017LP-G	P3-26
I-8KE8	P3-11	I-8024 / I-8024-G	P3-26
I-8420/I-8420-G	P3-13	I-8080 / I-8080-G	P3-26
I-8421/I-8421-G	P3-13	I-8090 / I-8090-G	P3-27
I-8820/I-8820-G	P3-13	I-8091 / I-8091-G	P3-27
I-8821/I-8821-G	P3-13	I-8072 / I-8072-G	P3-27
I-8417/I-8417-G	P3-15	I-8073 / I-8073-G	P3-27
I-8437/I-8437-G	P3-15	I-8077 / I-8077-G	P3-27
I-8817/I-8817-G	P3-15	Parallel Communication Modules	
I-8837/I-8837-G	P3-15	I-8112/I-8112-G	P3-29
I-8418/I-8418-G	P3-17	I-8114/I-8114-G	P3-29
I-8438/I-8438-G	P3-17	I-8142/I-8142-G	P3-29
I-8818/I-8818-G	P3-17	I-81421/I-81421-G	P3-29
I-8838/I-8838-G	P3-17	I-8144/I-8144-G	P3-29
I-87K I/O Expansion unit		I-87K I/O Modules	
I-87K4/I-87K4-G	P3-19	I-87051 / I-87051-G	P3-31
I-87K5/I-87K5-G	P3-19	I-87052 / I-87052-G	P3-31
I-87K8/I-87K8-G	P3-19	I-87053 / I-87053-G	P3-31
I-87K9/I-87K9-G	P3-19	I-87054 / I-87054-G	P3-31
I-8000 I/O Module		I-87055 / I-87055-G	P3-32
I-8037 / I-8037-G	P3-22	I-87057 / I-87057-G	P3-32
I-8040 / I-8040-G	P3-22	I-87058 / I-87058-G	P3-32
I-8041 / I-8041-G	P3-22	I-87063 / I-87063-G	P3-32
I-8042 / I-8042-G	P3-22	I-87064 / I-87064-G	P3-33
I-8050 / I-8050-G	P3-22	I-87065 / I-87065-G	P3-33
I-8051 / I-8051-G	P3-23	I-87066 / I-87066-G	P3-33

Ordering INFORMATION

I-87068 / I-87068-G	P3-33	X201		P4-27
I-87069 / I-87069-G	P3-33	X202		P4-24
I-87013 / I-87013-G	P3-35	X203		P4-24
I-87016 / I-87016-G	P3-35	X300		P4-27
I-87017 / I-87017-G	P3-35	X301		P4-27
I-87018 / I-87018-G	P3-35	X302		P4-27
I-87022 / I-87022-G	P3-36	X303		P4-24
I-87024 / I-87024-G	P3-36	X304		P4-24
I-87026 / I-87026-G	P3-36	X305		P4-24
I-87082 / I-87082-G	P3-36	X306		P4-27
I-7188 Palm-size Embedded Controller		X307		P4-25
I-7188/512;I-7188D/512	P4-3	X308		P4-25
I-7188/256;I-7188D/256	P4-3	X310		P4-25
I-7188XA;I-7188XAD	P4-4	X400		P4-27
I-7188XB;I-7188XBD	P4-5	X500	P4-27	P4-28
I-7188XG;I-7188XGD	P4-6	X501		P4-27
I-7188XC;I-7188XCD	P4-7	X502		P4-27
Iview 100	P4-8	X503		P4-25
Embedded Internet/Ethernet Controller		X504		P4-25
I-7188EX;I-7188EXD	P4-14	X505		P4-25
I-7188EA;I-7188EAD	P4-16	X506		P4-25
I-7188EG;I-7188EGD	P4-17	X507		P4-25
I/O Expansion Boards		X508		P4-25
X000	P4-26	P4-28	X509	P4-25
X001	P4-26	P4-28	X510	P4-25
X002		P4-24	X511	P4-25
X003	P4-26	P4-28	X513	P4-25
X004		P4-24	X516	P4-25
X005		P4-24	X560	P4-25 P4-27 P4-28
X006		P4-24	X600/X601	P4-26 P4-27 P4-28
X100		P4-26	X607	P4-26 P4-27 P4-28
X101		P4-26	X608	P4-26 P4-27 P4-28
X102		P4-26	USB Converter & Hub	
X103		P4-26	I-7560	P5-12
X104		P4-26	I-7561	P5-12
X105		P4-26	I-7563	P5-12
X106		P4-27		
X107		P4-24		
X109		P4-24		
X110		P4-24		
X111		P4-24		
X119	P4-24	P4-27	P4-28	
X200		P4-27		

Ordering INFORMATION

Card & Converters		I-7045 / I-7045D	P5-21
PCISA-7520R	P5-13	I-7050 / I-7050D	P5-21
PCISA-7520AR	P5-13	I-7050A / I-7050AD	P5-21
I-7551	P5-13	I-7051 / I-7051D	P5-21
I-7520	P5-13	I-7052 / I-7052D	P5-21
I-7520A	P5-13	I-7053 / I-7053D	P5-22
Repeater & Hub		I-7055 / I-7055D	P5-22
I-7510/I-7510A	P5-14	I-7058	P5-22
I-7510AR	P5-14	I-7060 / I-7060D	P5-22
I-7513	P5-14	I-7063 / I-7063D	P5-22
Analog I/O Module		I-7063A	P5-23
I-7011 / I-7011D	P5-15	I-7063B	P5-23
I-7011P / I-7011PD	P5-15	I-7065	P5-23
I-7012 / I-7012D	P5-15	I-7065A	P5-23
I-7012F / I-7012FD	P5-15	I-7065B	P5-24
I-7013 / I-7013D	P5-15	I-7066	P5-24
I-7033 / I-7033D	P5-16	I-7067	P5-24
I-7015 / I-7015D	P5-16	Converter & Modules	
I-7014D	P5-16	I-7080	P5-24
I-7016 / I-7016D	P5-16	Relay Modules	
I-7016P / I-7016PD	P5-16	RM-10X / 20X	P5-25
I-7017	P5-17	DN-PR4	P5-25
I-7017F	P5-17	DN-SSR4	P5-25
I-7017R	P5-17	Power Supply	
I-7017C	P5-17	ACE-540A / DIN-540A	P5-25
I-7017RC	P5-17	KA-52F / DIN-KA52F	P5-25
I-7018	P5-18	PWR-24 / 110	P5-25
I-7018P	P5-18	PWR-24 / 220	P5-25
I-7018R	P5-18	PWR-24 / 230	P5-25
I-7018BL	P5-18	DP-640/DP-660/DP-665	P5-25
I-7019	P5-18	DP-1200	P5-25
Analog I/O Modules		Man Machine Interface	
I-7021	P5-19	MMICON	P5-26
I-7021P	P5-19	Touch 200/Touch 250	P5-26
I-7022	P5-19		
I-7024	P5-19		
Digital I/O Modules			
I-7041 / I-7041D	P5-20		
I-7042 / I-7042D	P5-20		
I-7043 / I-7043D	P5-20		
I-7044 / I-7044D	P5-20		

Ordering INFORMATION

Radio Modem and Antenna		Industrial Ethernet Switches	
SST-2450	P5-27	NS-115FT	P8-1
SST-900EXT	P5-27	NS-115FT-AC	P8-1
ANT-3	P5-27	NS-115FC	P8-1
ANT-8	P5-27	NS-115FC-AC	P8-1
ANT-12	P5-27	NS-105	P8-1
ANT-900A	P5-27	Industrial Ethernet Fiber Converter	
Accessories		NC-200TFT	P8-2
I-950-ENC	P5-27	NC-200TFC	P8-2
I-3625-ENC	P5-27	NC-10TFT	P8-2
Terminal Block Cover		NC-10TFC	P8-2
CA-5810	P5-28		
CA-3813	P5-28		
CA-0945	P5-28		
Relay Modules			
RM-38	P5-28		
RM-48.61 / RM-48.62	P5-28		
Learning Kit			
IKIT-01/02/03/04/05/06/07/08	P5-29		
IKIT-20/21/22/23	P5-30		
Training Box	P5-30		
Signal Conditioner Modules			
SG-3011	P6-1		
SG-3016	P6-1		
SG-3031N	P6-1		
Signal Conditioner & Power Modules			
SG-3071	P6-2		
SG-3081	P6-2		
SG-3090	P6-2		
Wireless Lan			
T-316	P7-2		
NHW6110	P7-2		
NHW650	P7-2		
NHW660	P7-2		
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NWA0106	P7-3		
NWA0208	P7-3		
NWA0214	P7-3		
M1200A / 1203A	P7-4		
CMS-91GPRS	P7-4		
GM-305	P7-4		
Application	P7-5		