

# Industrial Ethernet Switches

NS-205



Available soon

NS-200FT



Available soon

NS-115



NS-105



NS-108



## Features

NS-115 SERIES/NS-200FT 10/100M with Fiber Connector	NS-105/NS-108/NS-205 Ethernet Switching Hub
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 switching ports and 1 100Base-FX switched port	Provides 5 10/100Mbps switching ports (NS-105) Provides 8 Ports (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 1K 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/NS-108
<b>Port configuraton</b>	Multimode ST,Multimode SC Multimode 62.5/125um fiber cable(max.distance:2km)	Auto-negotiation for connection speed and duplex type
<b>Connector</b>	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.)
<b>Cables</b>	Unicast/Multicast/Broadcast address:1K MAC addresses per unit	Unicast/Multicast/Broadcast address:1K MAC addresses per unit
<b>Filtering address</b>	14,880pps for Ethernet, 148,800pps for Fast Ethernet	14,880pps for Ethernet, 148,800pps for Fast Ethernet
<b>Filtering rate</b>	14,880pps for Ethernet, 148,800pps for Fast Ethernet	14,880pps for Ethernet, 148,800pps for Fast Ethernet
<b>RAM Buffers</b>	128KB	2MB
<b>LEDs</b>	-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
<b>Environment</b>	Temperature: 0°C to 50°C Relative Humidity : 10% to 90% non-condensing	Temperature: 0°C to 60°C Relative Humidity : 10% to 90% non-condensing
<b>Dimensions</b>	160mm x 70mm x 125mm	160mm x 70mm x 125mm
<b>Power</b>	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-200FT	1-Port Fiber Optic ,1-port 10/100M RJ-45 connector			
NS-105	5-Port Industrial Ethernet Switch			
NS-108	8-Port Industrial Ethernet Switch			
NS-205	5-Port Industrial Ethernet Switch			

# Industrial Ethernet Fiber Converter



NC-10TF



NC-200TF

## Features

- ¥ Complies with 802.3 10Base-T and 10Base-FX standards
- ¥ Complies with 802.3 100Base-T and 100Base-FX 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-FX	IEEE-802.3 Ethernet 10Base-T and 10Base-FX
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.3.4.5 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: 0ℳC to 50ℳC Relative Humidity : 10% to 90% non-condensing	Temperature: 0ℳC to 50ℳC 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	Fiber Optic to 100M RJ-45 Connector	MultiMode	ST	DC10~30V
NC-200TFC	Fiber Optic to 100M RJ-45 Connector	MultiMode	SC	DC10~30V
NC-10TFT	Fiber Optic to 10M RJ-45 Connector	MultiMode	ST	DC10~30V
NC-10TFC	Fiber Optic to 10M RJ-45 Connector	MultiMode	SC	DC10~30V

# Ordering INFORMATION

<b>Wincon-8000 Compact Embedded Controller</b>		I-8054 / I-8054-G	P3-23
W-8331-G	P2-4	I-8055 / I-8055-G	P3-23
W-8731-G	P2-4	I-8056 / I-8056-G	P3-24
W-8337-G	P2-5	I-8057 / I-8057-G	P3-24
W-8737-G	P2-5	I-8058 / I-8058-G	P3-24
W-8339-G	P2-5	I-8060 / I-8060-G	P3-24
W-8739-G	P2-5	I-8063 / I-8063-G	P3-24
<b>I-8000 Compact Embedded Controller</b>		I-8064 / I-8064-G	P3-25
I-8410	P3-7	I-8065 / I-8065-G	P3-25
I-8411	P3-7	I-8066 / I-8066-G	P3-25
I-8810	P3-7	I-8068 / I-8068-G	P3-25
I-8811	P3-7	I-8069 / I-8069-G	P3-25
I-8430/I-8430-G	P3-8	I-8017H / I-8017H-G	P3-26
I-8431/I-8431-G	P3-8	I-8017MP / I-8017MP-G	P3-26
I-8830/I-8830-G	P3-8	I-8017LP / I-8017LP-G	P3-26
I-8831/I-8831-G	P3-8	I-8024 / I-8024-G	P3-26
I-8KE4	P3-11	I-8080 / I-8080-G	P3-27
I-8KE8	P3-11	I-8090 / I-8090-G	P3-27
I-8420/I-8420-G	P3-13	I-8091 / I-8091-G	P3-27
I-8421/I-8421-G	P3-13	I-8072 / I-8072-G	P3-27
I-8820/I-8820-G	P3-13	I-8073 / I-8073-G	P3-28
I-8821/I-8821-G	P3-13	I-8074 / I-8074-G	P3-28
I-8417/I-8417-G	P3-15	I-8077 / I-8077-G	P3-28
I-8437/I-8437-G	P3-15	<b>Parallel Communication Modules</b>	
I-8817/I-8817-G	P3-15	I-8112/I-8112-G	P3-29
I-8837/I-8837-G	P3-15	I-8114/I-8114-G	P3-29
I-8418/I-8418-G	P3-17	I-8142/I-8142-G	P3-29
I-8438/I-8438-G	P3-17	I-81421/I-81421-G	P3-29
I-8818/I-8818-G	P3-17	I-8144/I-8144-G	P3-29
I-8838/I-8838-G	P3-17	<b>I-87K I/O Modules</b>	
<b>I-87K I/O Expansion unit</b>		I-87040 / I-87040-G	P3-31
I-87K4/I-87K4-G	P3-19	I-87041 / I-87041-G	P3-31
I-87K5/I-87K5-G	P3-19	I-87051 / I-87051-G	P3-31
I-87K8/I-87K8-G	P3-19	I-87052 / I-87052-G	P3-31
I-87K9/I-87K9-G	P3-19	I-87053 / I-87053-G	P3-31
<b>I-8000 I/O Module</b>		I-87054 / I-87054-G	P3-32
I-8037 / I-8037-G	P3-22	I-87055 / I-87055-G	P3-32
I-8040 / I-8040-G	P3-22	I-87057 / I-87057-G	P3-32
I-8041 / I-8041-G	P3-22	I-87058 / I-87058-G	P3-32
I-8042 / I-8042-G	P3-22	I-87063 / I-87063-G	P3-32
I-8050 / I-8050-G	P3-22	I-87064 / I-87064-G	P3-33
I-8051 / I-8051-G	P3-23	I-87065 / I-87065-G	P3-33
I-8052 / I-8052-G	P3-23	I-87066 / I-87066-G	P3-33
I-8053 / I-8053-G	P3-23		

# Ordering INFORMATION

I-87068 / I-87068-G	P3-33	X200		P4-27
I-87069 / I-87069-G	P3-33	X201		P4-28
I-87013 / I-87013-G	P3-35	X202		P4-24
I-87016 / I-87016-G	P3-35	X203		P4-24
I-87017 / I-87017-G	P3-35	X300		P4-28
I-87018 / I-87018-G	P3-35	X301		P4-28
I-87022 / I-87022-G	P3-36	X302		P4-28
I-87024 / I-87024-G	P3-36	X303		P4-25
I-87026 / I-87026-G	P3-36	X304		P4-25
I-87082 / I-87082-G	P3-36	X305		P4-25
<b>I-7188 Palm-size Embedded Controller</b>		X306		P4-28
I-7188/512;I-7188D/512	P4-3	X307		P4-25
I-7188/256;I-7188D/256	P4-3	X308		P4-25
I-7188XA;I-7188XAD	P4-4	X309		P4-25
I-7188XB;I-7188XBD	P4-5	X310		P4-25
I-7188XG;I-7188XGD	P4-6	X400		P4-28
I-7188XC;I-7188XCD	P4-7	X500	P4-28	P4-29
Iview 100	P4-8	X501		P4-28
<b>Embedded Internet/Ethernet Controller</b>		X502		P4-28
I-7188EX;I-7188EXD	P4-14	X503		P4-25
I-7188EA;I-7188EAD	P4-16	X504		P4-25
I-7188EG;I-7188EGD	P4-17	X505		P4-25
<b>I/O Expansion Boards</b>		X506		P4-25
X000	P4-27	P4-29	X507	P4-25
X001	P4-27	P4-29	X508	P4-26
X002		P4-24	X509	P4-26
X003	P4-27	P4-29	X510	P4-26
X004		P4-24	X510-128	P4-26
X005		P4-24	X511	P4-26
X006		P4-24	X518	P4-26
X100	P4-27	X560	P4-26 P4-28	P4-29
X101	P4-27	X600/X601	P4-26 P4-28	P4-29
X102	P4-27	X607	P4-26 P4-28	P4-29
X103	P4-27	X608	P4-26 P4-28	P4-29
X104	P4-27	X700		P4-26
X105	P4-27	X701		P4-26
X106	P4-27	<b>USB Converter &amp; Hub</b>		
X107	P4-24	I-7560		P5-12
X109	P4-24	I-7561		P5-12
X110	P4-24	I-7563		P5-12
X111	P4-24			
X116	P4-24			
X119	P4-24 P4-27	P4-29		

# Ordering INFORMATION

<b>Card &amp; Converter</b>		I-7044 / I-7044D	P5-20
PCISA-7520R	P5-13	I-7045 / I-7045D	P5-21
PCISA-7520AR	P5-13	I-7050 / I-7050D	P5-21
I-7551	P5-13	I-7050A / I-7050AD	P5-21
I-7520 / I-7520R	P5-13	I-7051 / I-7051D	P5-21
I-7520A / I-7520AR	P5-13	I-7052 / I-7052D	P5-21
<b>Repeater &amp; Hub</b>		I-7053 / I-7053D	P5-22
I-7510/I-7510A	P5-14	I-7055 / I-7055D	P5-22
I-7510AR	P5-14	I-7058 / I-7058D	P5-22
I-7513	P5-14	I-7060 / I-7060D	P5-22
I-7530	P5-14	I-7063 / I-7063D	P5-22
I-2541	P5-14	I-7063A / I-7063AD	P5-23
<b>Analog I/O Module</b>		I-7063B / I-7063BD	P5-23
I-7011 / I-7011D	P5-15	I-7065 / I-7065D	P5-23
I-7011P / I-7011PD	P5-15	I-7065A / I-7065AD	P5-23
I-7012 / I-7012D	P5-15	I-7065B / I-7065BD	P5-24
I-7012F / I-7012FD	P5-15	I-7066 / I-7066D	P5-24
I-7013 / I-7013D	P5-15	I-7067 / I-7067D	P5-24
I-7033 / I-7033D	P5-16	<b>Counter / Frequency / Modules</b>	
I-7015	P5-16	I-7080 / I-7080D	P5-24
I-7014D	P5-16	<b>Relay Modules</b>	
I-7016 / I-7016D	P5-16	RM-10X / 20X	P5-25
I-7016P / I-7016PD	P5-16	DN-PR4	P5-25
I-7017	P5-17	DN-SSR4	P5-25
I-7017F	P5-17	<b>Power Supply</b>	
I-7017R	P5-17	ACE-540A / DIN-540A	P5-25
I-7017C	P5-17	KA-52F / DIN-KA52F	P5-25
I-7017RC	P5-17	PWR-24 / 110	P5-25
I-7018	P5-18	PWR-24 / 220F	P5-25
I-7018P	P5-18	PWR-24 / 230R	P5-25
I-7018R	P5-18	DP-640/DP-660/DP-665	P5-25
I-7018BL	P5-18	DP-1200	P5-25
I-7019R	P5-18	<b>Man Machine Interface</b>	
<b>Analog I/O Modules</b>		MMICON	P5-26
I-7021	P5-19	Touch 200/Touch 250	P5-26
I-7021P	P5-19		
I-7022	P5-19		
I-7024	P5-19		
<b>Digital I/O Modules</b>			
I-7041 / I-7041D	P5-20		
I-7042 / I-7042D	P5-20		
I-7043 / I-7043D	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-12P	P5-27	NS-105	P8-1
ANT-900A	P5-27	NS-108	P8-1
<b>Accessories</b>		NS-205	P8-1
I-950-ENC	P5-27	NS-200FT	P8-1
I-3625-ENC	P5-27	<b>Industrial Ethernet Fiber Converter</b>	
<b>Terminal Block Cover</b>		NC-200TFT	P8-2
CA-5810	P5-28	NC-200TFC	P8-2
CA-3813	P5-28	NC-10TFT	P8-2
CA-0945	P5-28	NC-10TFC	P8-2
<b>Relay Modules</b>			
RM-38	P5-28		
RM-48.61 / RM-48.62	P5-28		
<b>Learning Kit</b>			
IKIT-01/02/06/08/21/23	P5-29		
WINKIT-01/02	P5-30		
<b>Signal Conditioner Modules</b>			
SG-3011	P6-1		
SG-3016	P6-1		
SG-3031	P6-1		
<b>Signal Conditioner &amp; Power Modules</b>			
SG-3071	P6-2		
SG-3081	P6-2		
PW-3090	P6-2		
<b>Wireless LAN</b>			
T-316	P7-2		
NHW6110	P7-2		
NHW650	P7-2		
NHW660	P7-2		
P-380A	P7-2		
NWA0106	P7-3		
NWA0208	P7-3		
NWA0214	P7-3		
M1203A	P7-4		
GM-29	P7-4		
GM-305	P7-4		
Application	P7-5		