

## WN-5121 Series

### 10/100Base-Tx to Base-Fx Media convertor

### Technical Specification



#### Key Features

- ▶ All Converters comply with IEEE 802.3 & 802.3u Fast Ethernet Standards.
- ▶ LED Indication: FX-100, FX-Link/Act, TX-100, TX-Link/Act, FDX, PWR.
- ▶ Store-and-forward at full wire speed.
- ▶ Provide one RJ-45 twisted pair 10/100Mbps Ethernet port and one 100BASE-Fx port.
- ▶ Extends distances ranging from 2km (multi-mode fiber) to 20km (single mode fiber).
- ▶ 100BASE-Tx port 10M/100M and full/half duplex auto-negotiation.
- ▶ Voltage supervisor.
- ▶ DIP switch manual setting on 10 or 100 and half or full duplex in case of auto-negotiation failure.
- ▶ Device DIP switches allow multiple configuration options.
- ▶ Hot-swappable Redundant Power Supply.
- ▶ Wavelength: 850nm, 1310nm, 1550nm selectable.
- ▶ The product is marked with a sign is a Fiber Optic cable and UTP cable.
- ▶ Can be installed in the Chassis 1, 4 or 12 Slot.
- ▶ Has been certified ISO9001: 2015.

Model		WN-5121 Series
<b>Parameters</b>		
<b>Standards</b>	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX & 100Base-FX	
<b>Performance</b>		
<b>Processing Type</b>	Store and Forward	
<b>Data Transfer Rate</b>	200 Mbps - Full duplex	
<b>MAC Table Size</b>	1Kbit Entries	
<b>Filtering Rate</b>	Filtering Rate - Ethernet: 14,880pps	
	Filtering Rate - Fast Ethernet: 148,800pps	
<b>Network Interface</b>		
<b>RJ45 Port</b>	1xRJ45, 10/100Base-T, Auto-negotiate, Auto-MDI/MDI-X	
<b>Fiber Port</b>	1xSC simplex connector, 100Base-FX	
<b>Max. Distance</b>	<b>UTP :</b>	100 meters (Category 5/5E or better)
	<b>Fiber :</b>	2Km (Multimode), 30 ~ 100Km (Singlemode), 20 ~ 40Km (Singlemode, Single Fiber, WDM)
<b>Optical Specification</b>		
<b>Connector Type</b>	SC/FC	
<b>Wavelength</b>	850nm, 1310nm, 1550nm	
<b>Typical Distance</b>	20Km	
<b>Transmit Power</b>	Max. -7(dBm); Min. -18(dBm)	
<b>Receive Sensitivity</b>	-28(dBm)	
<b>System Budget</b>	10dB	
<b>LED Indicators</b>		
<b>100</b>	<b>Green :</b>	Illuminated when data packets are being transmitted at 100Mbps
<b>LFS</b>	<b>Red :</b>	Illuminated when a break or disruption exists in copper or fiber links
<b>LNK</b>	<b>Green :</b>	Illuminated indicates receiving link pulses from compliant device
<b>ACT</b>	<b>Green :</b>	Flashing to indicate data packets being sent / received
<b>FDX</b>	<b>Amber :</b>	Illuminated to indicate unit is in full duplex mode
<b>COL</b>	<b>Amber :</b>	Flashing to indicate collision
<b>PWR</b>	<b>Green :</b>	Illuminated to indicate unit is operating under normal power
<b>Quality Assurance</b>		
<b>Function Mode</b>	Local Loop Back Test, Remote Loop Back Test, Link Fault Signaling	
<b>MTBF</b>	MTBF > 250,000 Hours	
<b>Guarantee</b>	charge repair within three years guaranteed	
<b>Operating Environment</b>		
<b>Operating Temp.</b>	0 °C ~ +70 °C	
<b>Storage Temp.</b>	-40 °C ~ +85 °C	
<b>Relative humidity</b>	5% ~ 95% (no condensation)	
<b>Mechanical</b>		
<b>Dimensions</b>	109mm. x 73.8mm. x 23.4mm. (W x D x H)	
<b>Weight</b>	158g.	
<b>Certification &amp; Compliance</b>		
<b>Regulation</b>	FCC part 15 Class A, CE	

#### Typical Optical Power Budget

TYPE	WN5121-4M02	WN5121-4S20	WN5121-4S40	WN5121-4S60	WN5121-4S80	WN5121-6D100
<b>Connector Type</b>	SC/ST	SC/FC	SC/FC	SC/FC	SC/FC	SC/FC
<b>Wavelength</b>	1310nm.	1310nm.	1310nm.	1310nm.	1310nm.	1550nm. DFB
<b>Typical Distance</b>	2Km.	20Km.	40Km.	60Km.	80Km.	100Km.
<b>Min. TX PWR</b>	-19.0dBm.	-18.0dBm.	-5.0dBm.	-4.0dBm.	0dBm.	-3.0dBm.
<b>Max. TX PWR</b>	-14.0dBm.	-7.0dBm.	0dBm.	2.0dBm.	5.0dBm.	2.0dBm.
<b>Sensitivity</b>	-30.0dBm.	-28.0dBm.	-34.0dBm.	-36.0dBm.	-37.0dBm.	-36.0dBm.
<b>Link Budget</b>	11.0dB	10.0dB	29.0dB	32.0dB	37.0dB	33.0dB

#### Key Features

- DIP 1** - Enables / disables auto-negotiation
- DIP 2** - Copper port (RJ45) duplex mode; full-duplex or half-duplex
- DIP 3** - Copper port (RJ45) data bit rate; 10Mbps or 100Mbps
- DIP 4** - Fiber Port duplex mode; full-duplex or half-duplex

- DIP 5** - Enables / disables remote loop back (RLBK)
- DIP 6** - Enables / disables local loop back (LLBK)
- DIP 7** - Enables / disables link fault signaling (LFS)