

# IVC-0101

## 1 10/100TX to VDSL2 Industrial Converter

- *UL Class I Division II for Group A,B,C and D hazardous location*
- *Compliant with ITU-T G.993.1(VDSL) and G.997.1*
- *CO / CPE selectable via DIP Switch*
- *Wide Operating Temperature (-40 ~ 75°C)*



### OVERVIEW

The Lantech IVC-0101 is an industrial Ethernet extender via VDSL (phone-line) with wide operating temperature. IVC-0101 complies with ITU-T G.993.1 (VDSL) and G.997.1. It provides a cost-effective VDSL2 bridge solution for CO/CPE selectable via DIP switch and supports VDSL connection up to 2KM.

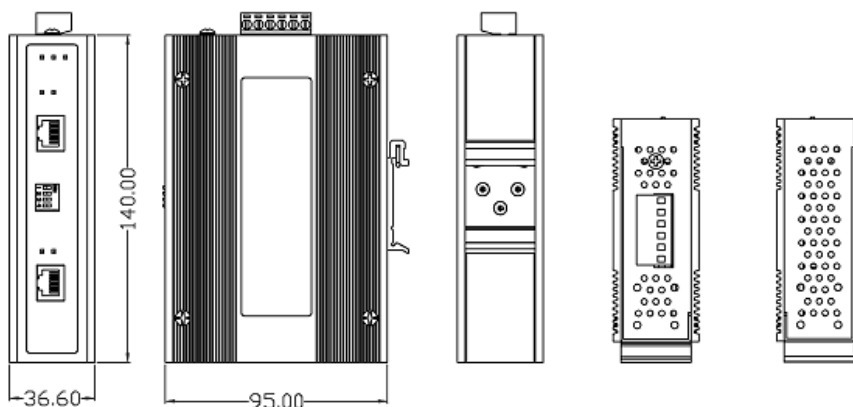
The Lantech IVC-0101 is designed to meet the demands of industrial environments, comes packaged in a robust IP 30

housing and has been tested extensively to meet Industrial EMI and EMC standards. With UL508 and UL Class I Division II approval, IVC-0101 can be implemented in hazardous or explosive condition without accelerating the potential damage. It is the best choice to be installed in inflammable environment where the liquid, gas and vapor etc might present the hazardous condition which generally to be found in mining, oil & gas, chemical, processing automation areas.

### FEATURES & BENEFITS

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| <ul style="list-style-type: none"> <li>■ <b>Compliant with ITU-T G.993.1(VDSL) and G.997.1</b></li> <li>■ <b>TX port support Auto MDI/MDI-X</b></li> <li>■ <b>Cost-effect VDSL2 bridge solution</b></li> <li>■ <b>CO / CPE selectable via DIP Switch</b></li> <li>■ <b>4 DIP Switches for Configuration Settings</b></li> <li>■ <b>Support VDSL Connection up to 2KM</b></li> <li>■ <b>Wide Operating Temperature (-40 ~ 75°C)</b></li> <li>■ <b>UL508/ UL Class I Division II for Group A,B,C and D hazardous location</b></li> </ul> | <ul style="list-style-type: none"> <li>■ <b>High Performance</b> <ul style="list-style-type: none"> <li>• Full VDSL2 bandwidth up to: (Down Stream / Up Stream)</li> <li>- 200m -&gt; 88 / 49Mbps</li> <li>- 400m -&gt; 63 / 29Mbps</li> <li>- 600m -&gt; 46 / 18Mbps</li> <li>- 800m -&gt; 30 / 5.7Mbps</li> <li>- 1000m -&gt; 22 / 5.3Mbps</li> <li>- 1500m -&gt; 18 / 0.8Mbps</li> <li>- 2000m -&gt; 9 / 0.5Mbps</li> </ul> </li> </ul> |
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### DIMENSIONS (unit=mm)



## SPECIFICATION

Hardware Specification		Power Supply	AC 24V DC 12~48V, Redundant power with polarity reverse protect function and removable terminal block
Connector	10/100TX : RJ-45 x 1 VDSL : RJ-45 x 1 with Female Phone Jack	Reserve polarity protection	Present
DIP Switch	DIP 1: Master, Slave Switch OFF: Acting as Central Office (CO) side ON: Acting as Customer Premise Equipment (CPE) side  DIP 2: Impulse noise Protection OFF: Interleave mode ON: Fast mode  DIP 3: Rate Limit control OFF: Limit line-rate Enable ON: Limit line-rate Disable  DIP 4: General Protection OFF: SNR 9dB ON: SNR 6dB	Relay Alarm	1A @ DC24V
		Power Consumption	4.8 Watts( 48VDC)/ 7.7 Watts( 24VAC)
		MTBF	260,895 hrs
		Operating Humidity	5%~95% (Non-condensing)
		Operating Temperature	-40°C~75°C
		Storage Temperature	-40°C ~85°C
		Case Dimension	Metal case. IP-30, 30 x 140 x 95 mm
		Installation	DIN Rail and Wall Mount Design
		EMC	CE, FCC Class A EN61000-6-4 EN61000-6-2 EN61000-4-2 (ESD) EN61000-4-3 (Radiated RFI) EN61000-4-4 (Burst) EN61000-4-5 (Surge) EN61000-4-6 (Induced RFI) EN61000-4-8 (Magnetic Field) EN61000-4-11 (Voltage Dip) EN61000-3-2 (Harmonics Current) EN61000-3-3 (Voltage Fluctuation & Flickers)
		Safety	UL508, Class 1/ Division 2
LED	<b>Per unit:</b> Power1(Green): ON: Power 1 on/ OFF: Power 1 off/ BLK:-- Power2(Green): ON: Power 2 on/ OFF: Power 2 off/ BLK:-- P-Fail(Red): ON: Power1/Power2 is inactive/ OFF: Power1 and Power2 are both active, or no power input/ BLK:--  <b>10/100TX:</b> LNK/ACT(Green): ON: Link up/ OFF: Link down/ BLK: Transmitting SPD(Amber): ON:100Mbps/ OFF:10Mbps/ BLK:--  <b>VDSL:</b> LNK/ACT(Green): ON: Link up/ OFF: Link down/ BLK: Negotiating, Transmitting CO(Green): ON: Acting as Central Office (CO) side/ OFF: Acting as Customer Premise Equipment (CPE) side/ BLK:--	Shock	IEC60068-2-27
		Freefall	IEC60068-2-32
		Vibration	IEC60068-2-6
		Warranty	5 years

## ORDERING INFORMATION

- **IVC-0101.....P/N: 8350-030**  
1 10/100TX to VDSL2 Industrial Converter; Wide Operating Temp. (-40°C~75°C)

## OPTIONAL ACCESSORIES

### DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

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