



IVC-2002



**Extends Ethernet over coaxial or twisted pair cables**

## Overview

The IVC-2002 is an Industrial Ethernet Extender. It has a switching architecture with 4 RJ-45 10/100Mbps Ethernet ports and one asymmetric or symmetric Ethernet over VDSL this extender can use either BNC (coaxial) or RJ-11 (twisted pair) connectivity for high speed Ethernet data transmission, over existing cables. The IVC-2002 is compatible with the PLANET VC-201A and VC-202A VDSL Ethernet extenders; together they can be used to provide low cost Ethernet access networks.

## Application



## Ethernet Extender

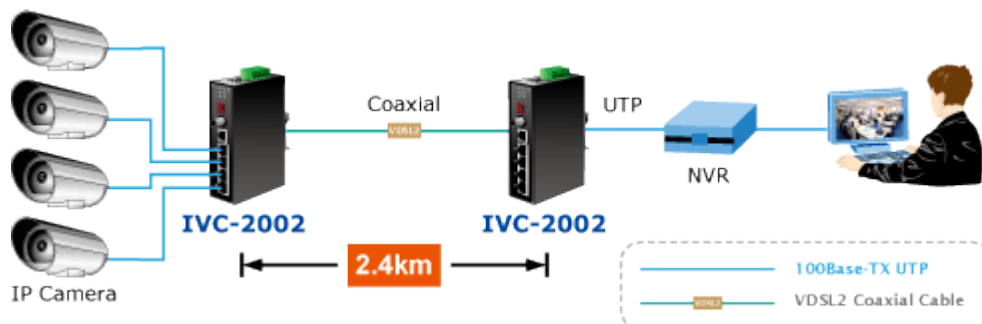
The IVC-2002 has a switching architecture with 4 RJ-45 10/100Mbps Ethernet ports and one asymmetric or symmetric Ethernet over VDSL port– the VDSL port can be RJ-11 or BNC Connector.

## Description

### Environmentally Hardened Design for Industrial Networks

The IVC-2002 provides a high level of immunity to electromagnetic interference and heavy electrical surges typically found in environments such as plant rooms or in curb side telecommunication or traffic control cabinets. The IVC-2002 can operate over a wide temperature range of **-40 to 75 Degree C**, so it can operate in almost any location. The IVC-2002 is packaged in a compact, IP-30 metal case that allows either DIN or panel mounting for efficient use of cabinet space. The unit has an integrated power supply with a wide range of voltages (12 ~ 48V DC) with dual-redundant, reversible polarity inputs for high availability applications requiring dual or backup power inputs.

## Application





## Features

### Key Features

- Cost-effective VDSL2 Master / Slave bridge solution
- -40 to 75 Degree C operating temperature
- Redundant Power Design: 12~48V DC redundant power with polarity reverse protect function
- IP-30 metal case protection
- One box design, Master / Slave selectable via DIP Switch
- Defines Asymmetric (Band Plan 998) and Symmetric band plans for transmission of Upstream and Downstream signals
- Complies with IEEE 802.3, IEEE 802.3u and IEEE 802.3x standards
- DMT (Discrete Multi-Tone) line coding
- Half Duplex Back Pressure and IEEE 802.3x Full Duplex Pause Frame Flow Control
- Supports up to 1536 bytes packet size, 802.1Q VLAN tag transparent
- Integrated address look-up engine, supports 2K absolute MAC addresses
- VDSL2 Standalone transceiver for simple bridge modem application
- Selectable Target Band Plan and Target SNR Margin
- Supports extensive LED indicators for network diagnostics
- DIN Rail and Wall Mount Design

### Ordering Information

IVC-2002	4-Port 10/100Base-TX + 1-Port BNC / RJ-11 Industrial Ethernet Extender (-40 ~ 75 Degree C)
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## Standards

### Standard Conformance

#### Regulation Compliance

FCC Part 15 Class A,

#### CE Stability Testing

IEC60068-2-32(Free Fall)

IEC60068-2-27(Shock)

IEC60068-2-6(Vibration)

#### Standards Compliance

IEEE 802.3 10Base-T

IEEE 802.3u 100Base-TX

IEEE 802.3x Full Duplex Pause Frame Flow-Control

ITU-T

- G.993.1

- G.997.1

- G.993.2 (Profile 17a Support)

## Environment

### Environment

Dimension (W x D x H) 135mm x 87.8mm x 32mm (H x W x D)

Weight 495g

Power Requirement 12V DC ~ 48V DC

Power Consumption 5.64Watts / 19BTU

Operating Temperature -40~75 Degree C

Operating Humidity 5~90%, relative humidity, non-condensing

Storage Temperature -40~85 Degree C

Storage Humidity 5~90%, relative humidity, non-condensing