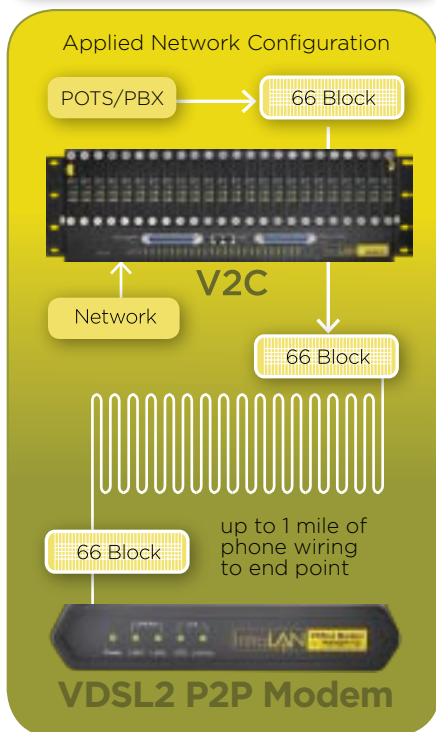




# 100Mb VDSL2 Concentrator

## Overview

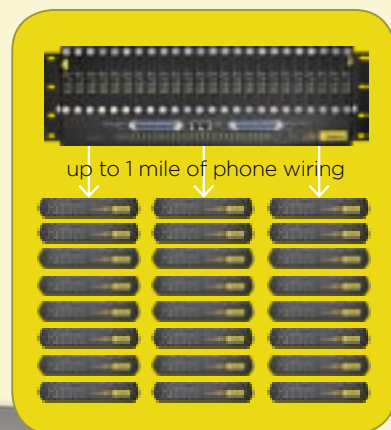
The IntraLAN VDSL2 Concentrator is modular in design to eliminate disruptions in service, improve overall network reliability, and increase lasting value and performance in equipment investment.



## Dedicated 100mbps to EVERY Connection with an Advanced Ethernet Switch.

The IntraLAN VDSL2 Concentrator (V2C) represents a novel approach to providing data and voice throughout the infrastructure. Unlike other VDSL concentrators that use a single circuit board to operate up to 24 ports, the VDSL2 Concentrator features a dedicated CO modem card for EACH of the 24 ports. Coupled with an integrated, full-featured VLAN switch, this modular design provides the following benefits:

- Independent line negotiation
- Dedicated 100Mb throughput
- Single VDSL module replacement
- Eliminate rewiring due to port failure
- Field serviceable system by local staff
- Connections operate independently with no shared VDSL resources
- Web management interface
- Advanced Gigabit Switch with VLAN (port and tag based), QoS, CoS



## Built-in Fully Functional 24-Port Managed Switch.

This modular solution is a novel approach, where each of dedicated cards operates independently. This provides a more stable solution for each connection. In the integrated single circuit board solution, often an issue with a single line will result in the remaining 23 connections slowing down or losing connectivity - the board simply can't handle the instability. However, with each board operating independently, this "system-wide" disruption can't occur.

## Modular design for uninterrupted performance.

The V2C modules are hot swappable allowing for the replacement of any individual card WHILE THE SYSTEM IS RUNNING. Replacement cards can be swapped by field staff providing the following benefits:

- If a connection goes offline, the module can be replaced by field staff (maintenance) within minutes of detection, which is immediate based on active monitoring
- Because Line Replaceable Boards are much less expensive than an entire 24-port integrated device, integrators can maintain an inventory of these boards to ensure that service interruptions are quickly resolved.



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## VDSL2 Concentrator Benefits:

- The highly advanced design of the VDSL2 Concentrator (V2C) saves money and downtime while increasing performance.
- Individual boards control data to each end point
- Each board is "hot swappable" which avoids system-wide outages while servicing one connection.
- Data load and connection quality of individual links don't effect system performance.
- 100 mbps to each end point
- Distance of 2,000 meters over average infrastructure
- Fully compatible with all phone systems
- Feature-rich Gigabit VLAN Switch managing data throughput to all end points.

## Chassis / Switch Specifications:

Fast Ethernet:	200Mbps (Full-duplex)
Gigabit Ethernet:	2000Mbps(Full-duplex)
MAC Address:	4K MAC address table
Memory Buffer:	~3Mbits per device
Management:	Web based
Power Supply:	100 - 240VAC 50/60Hz
Environmental:	
Operating Temp.:	0 - 40°C (32 - 104°F)
Operating Humidity:	5% - 95%, Non-Condensing
Storage Temp.:	-20 - 70°C (-4 - 158°F)
Certification:	FCC Class A, EN55022 Class A
Safety:	EN 60950
Casing:	Metal case
Dimensions:	445mm(W) x 356mm(H) x 156mm(D)

## VDSL2 Specifications:

- Transparent to higher layer protocols
- VDSL2 Transmission Speed and Distance:
- Within a distance of 300 meters maximum speed of 100/95Mbps
  - 50Mbps@915 meters (3,000 feet), reach down to 20Mbps @ about 1.7Km (5,600 feet)
  - Up to 5,600 feet (-176dBm/Hz Noise Floor)
- Indicators:
- Power, LAN and Link/Activity LEDs
- Emissions Compliance:
- FCC part 15 Class B, CE Mark

## Warranty:

1 year

Specifications are subject to change without notice.



## VDSL2 Concentrator Specifications



BACK PANEL



Advanced Network Solutions  
for Business and Industry.

### About Panoptic Corporation

Panoptic Technology's focus is to develop and enhance technologies to meet the ever increasing demands of business both today and in the future. Panoptic Technology optimizes technology migration by developing solutions that maximize performance while minimizing startup or investment costs.

### Panoptic Technology

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