

# ValueLine

Performance and Value



## ValueLine Fiber Optic

Transmission Products

## ComWorx™ VL Ethernet

Transmission Products

### Cost-Effective Fiber Optic and Ethernet Products from ComNet

For applications where **economical pricing** and **superior performance** is mandatory, **ValueLine** from **ComNet** is the solution.

**comnet**  
Communication Networks

Recognizing the need for a line of quality fiber optic and Ethernet transmission products, **ComNet** is introducing the **ValueLine** and **ComWorx VL** product lines to satisfy the demand for a cost-effective line of fiber optic and Ethernet transmission products.

ValueLine products consist of digitally encoded fiber optic video multiplexers, serial data products and audio products.

ComNet is also introducing the ComWorx VL series of commercial grade Ethernet media converters and managed Ethernet switches.

**ValueLine offers:**

- Superior Performance
- Economical Pricing
- UL and CE approved
- In-Stock Availability
- Products for most traditional Video, Audio, Data and Ethernet applications

# ValueLine

## Fiber Optic Video, Data and Audio Products

### PRODUCT INDEX

RS232/422 Point-To-Point  
Data Transceiver

4-Channel Digitally Encoded  
Video Multiplexer

4-Channel Digitally Encoded Video  
+ 2 Bi-directional Data Channels  
+ 1 Bi-directional Contact Closure

8-Channel Digitally Encoded Video

8-Channel Digitally Encoded Video  
+ 2 Bi-directional Data Channels  
+ 1 Bi-directional Contact Closure

Simplex (1 way) Audio  
and Contact Closure

Duplex (2 way) Audio and  
Contact Closure



## RS232/422 Point-To-Point Data Transceiver



<b>FDX50M2</b>	Small Size Transceiver
<b>FDX51M2</b>	Rack/Stand Alone Transceiver

- Interchangeable by application, provide point-to-point transmission of simplex or duplex EIA RS232/RS422 data signals over two multimode optical fibers
- Transparent to data encoding/compatible with major data protocols
- Data rates up to 115 Kbps (NRZ)
- FDX50 is smaller size for surface-mount application. The FDX51 can be either rack or surface mounted with ComFit.
- Transmission distances up to 6 km (3.7 miles)

## 4-Channel Digitally Encoded Video Multiplexer



<b>FVT41M1</b>	Multimode Transmitter
<b>FVR41M1</b>	Multimode Receiver
<b>FVT41S1</b>	Single mode Transmitter
<b>FVR41S1</b>	Single mode Receiver

- Digitally encoded video transmission:  
transmits 4 real-time high-quality color video signals on one optical fiber
- Robust design ensures high reliability in tough environments
- Compatible with all CCTV camera systems
- Plug-and-play operation
- LED indicators for monitoring the operating status
- Comfit design – interchangeable between stand-alone or cage mount configurations

## 4-Channel Digitally Encoded Video + 2 Bi-directional Data Channels + 1 Bi-directional Contact Closure



<b>FVT412M1</b>	Multimode Transmitter
<b>FVR412M1</b>	Multimode Receiver
<b>FVT412S1</b>	Single mode Transmitter
<b>FVR412S1</b>	Single mode Receiver

- Digitally encoded video transmission: transmits 4 real-time color video signals, 2 bi-directional data signals and contact closure on one optical fiber
- Supports RS232, RS422, and 2- or 4-wire RS485
- One bi-directional contact closure
- Compatible with all CCTV camera systems
- Robust design ensures high reliability in tough environments
- LED indicators for monitoring the operating status
- Comfit design – interchangeable between stand-alone or cage mount configurations

## 8-Channel Digitally Encoded Video



<b>FVT81M1</b>	Multimode Transmitter
<b>FVR81M1</b>	Multimode Receiver
<b>FVT81S1</b>	Single mode Transmitter
<b>FVR81S1</b>	Single mode Receiver

- Digitally encoded video transmission, transmits 8 real-time color video signals on one optical fiber
- Digitally encoded for high-quality video transmission
- Robust design ensures high reliability in tough environments
- Compatible with all CCTV camera systems
- Plug-and-play operation
- LED indicators for monitoring the operating status
- Comfit design – interchangeable between stand-alone or cage mount configurations

## 8-Channel Digitally Encoded Video + 2 Bi-directional Data Channels + 1 Bi-directional Contact Closure



<b>FVT812M1</b>	Multimode Transmitter
<b>FVR812M1</b>	Multimode Receiver
<b>FVT812S1</b>	Single mode Transmitter
<b>FVR812S1</b>	Single mode Receiver

- Digitally encoded video transmission: transmits 8 real-time high-quality color video signals, 2 bi-directional data signals and contact closure on one optical fiber
- Supports RS232, RS422, and 2- or 4-wire RS485
- One bi-directional contact closure
- Compatible with all CCTV camera systems
- Robust design ensures high reliability in tough environments
- LED indicators for monitoring the operating status
- Comfit design – interchangeable between stand-alone or cage mount configurations

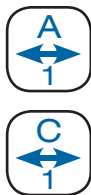
## Simplex (1 way) Audio and Contact Closure



<b>FVXAT1C1M1</b>	Multimode Transmitter
<b>FVXAR1C1M1</b>	Multimode Receiver
<b>FVXAT1C1S1</b>	Single mode Transmitter
<b>FVXAR1C1S1</b>	Single mode Receiver

- Transmit and Receive a single audio signal and one simplex/one-way contact closure over one multimode or single mode optical fiber
- Uses Frequency modulation (FM) for superior transmission of balanced or unbalanced line-level audio
- 20Hz - 20kHz Audio Bandwidth
- 600 Ohms Audio Input Impedance
- LOS (Loss of Signal) Alarm Relay provides remote indication of loss of optical path
- Distances up to 30 miles (48 km)
- Comfit design – interchangeable between stand-alone or cage mount configurations

## Duplex (2 way) Audio and Contact Closure



<b>FVXATR1C1M1A</b>	Bi-Directional Transceiver
<b>FVXATR1C1M1B</b>	Bi-Directional Transceiver
<b>FVXATR1C1S1A</b>	Bi-Directional Transceiver
<b>FVXATR1C1S1B</b>	Bi-Directional Transceiver

- Transmit and Receive a single bi-directional (2 way) Audio signal and one bi-directional (2 way) contact closure over one multimode or single mode optical fiber
- Uses Frequency Modulation (FM) for superior transmission of balanced or unbalanced line-level audio
- 20Hz - 20kHz Audio Bandwidth
- 600 Ohms Audio Input Impedance
- LOS (Loss of Signal) Alarm Relay provides remote indication of loss of optical path
- Comfit design – interchangeable between stand-alone or cage mount configurations



# ComWorx™ VL

**Ethernet over Copper Products,  
Fiber Optic and Copper Based  
Ethernet Media Converters,  
Managed Ethernet Switches and  
Small Form-Factor Pluggable Modules**

## PRODUCT INDEX

Ethernet Over Twisted Pair or  
Coaxial Cable Using VDSL2  
(EoVDSL) Technology

2 Ethernet Channels Over either 2  
Twisted Pair or 2 Coaxial Cables  
Using VDSL2 (EoVDSL) Technology

ComPak Ethernet over Copper  
Convenience Package

Ethernet Media Converters

8 Port Managed Ethernet Switch  
with (8) 10/100TX Ports

Managed Ethernet Switch with  
(8) 10/100TX + (2) 10/100/1000TX  
RJ45 or 100/1000 FX SFP ports  
with Power Over Ethernet (PoE)

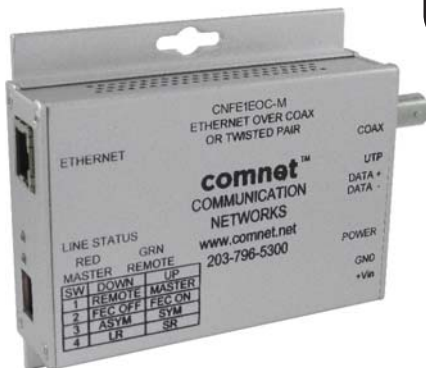
9 port 10/100/1000Mbps  
Managed Ethernet Switch  
with (8) 10/100/1000TX + (2)  
100/1000FX SFP ports

Modular 24 Port Configurable  
Managed Ethernet Switch

Small Form Factor Pluggable  
(SFP) Modules



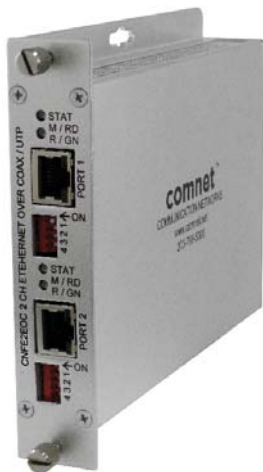
## Ethernet Over Twisted Pair or Coaxial Cable Using VDSL2 (EoVDSL) Technology



**CNFE1EOC** Ethernet over Twisted Pair or Coax, Small Size

- Uses a telephone-grade twisted copper pair, legacy serial cabling, or standard 75 ohm coaxial cable circuits
- Ideal for those applications where an existing installed base of copper wiring for Ethernet transmission is available
- Automatically selects fastest data rates, depending upon the transmission distance and cable quality
- Distances of up to 3 km over twisted copper, or up to 1500 ft (457 m) over coaxial cable
- Designed for installation in benign operating environments

## 2 Ethernet Channels Over either 2 Twisted Pair or 2 Coaxial Cables Using VDSL2 (EoVDSL) Technology



### **CNFE2EOC** 2 Ethernet Channels over 2 Twisted Pair or 2 Coax

- ValueLine version 2 Ethernet in – 2 Coax/ Twisted Pair Out
- Uses a telephone-grade twisted copper pair, legacy serial cabling, or standard 75 ohm coaxial cable circuits
- Ideal for those applications where an existing installed base of copper wiring for Ethernet transmission is available
- Automatically selects fastest data rates, depending upon the transmission distance and cable quality
- Distances of up to 3 km over twisted copper, or up to 1500 ft (457 m) over coaxial cable
- Designed for installation in benign operating environments
- Comfit design – interchangeable between stand-alone or cage mount configurations

POWER SUPPLY INCLUDED | FIVE YEAR WARRANTY

## ComPak Ethernet over Copper Convenience Package



**COMPAK1EOC** Ethernet over Twisted Pair or Coax, Small Size, 2 pack

- Each ComPak contains two CNFE1EOC for convenience
- Uses a telephone-grade twisted copper pair, legacy serial cabling, or standard 75 ohm coaxial cable circuits
- Ideal for those applications where an existing installed base of copper wiring for Ethernet transmission is available
- Automatically selects fastest data rates, depending upon the transmission distance and cable quality
- Distances of up to 3 km over twisted copper, or up to 1500 ft (457 m) over coaxial cable
- Available through all major security product distributors

POWER SUPPLY INCLUDED | FIVE YEAR WARRANTY

## 10/100Mbps Ethernet Media Converters



<b>CWFE2SCM2</b>	10/100Mbps Ethernet 1310nm MM
<b>CWFE2SCS2</b>	10/100Mbps Ethernet 1310nm SM

- Designed for installation in benign operating environment
- 10/100 Base -TX Electrical to 100 Base-FX Optical Fiber Media Converter
- Two Fiber SC Optical Fiber Connector Design
- Multimode and Singlemode Fiber models
- Compact Design
- Ambient operating temperature range:  
0° C to +50° C

## 8 Port Managed Ethernet Switch with (8) 10/100TX Ports



<b>CWFE8TX8MS</b>	Managed Ethernet Switch
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- Uses conventional CAT-5e copper transmission media
- 8 Electrical TX RJ45 Ports
- Supports the 10/100 Mbps (10/100 BASE-TX) Ethernet IEEE 802.3 protocol
- LED indicators for monitoring the operating status
- Ambient operating temperature range: 0° C to +50° C
- IGMP Snooping V1/V2/V3 for multicast filtering and IGMP Query V1/V2
- Port based VLAN (IEEE 802.1Q)
- Rapid Spanning Tree protocol (IEEE 802.1W)

## Managed Ethernet Switch with (8) 10/100TX + (2) 10/100/1000TX RJ45 or 100/1000 FX SFP ports with Power Over Ethernet (PoE)



<b>CWGE2FE8MSPOE</b>	Managed Ethernet Switch
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- (8) 10/100 BASE-TX and (2) 10/100/1000TX or 100/1000FX combo ports
- All 8 ports support IEEE.802.3af based PoE
- 2 ports are 10/100/1000 configurable for copper or fiber media for use with multimode or single mode optical fiber, selected by optional SFP modules
- Layer 2 managed switches are optically (100/1000 BASEFX) and electrically compatible with any IEEE 802.3 compliant Ethernet devices
- Ambient operating temperature range: 0° C to +50° C
- LED indicators for monitoring the operating status of the managed switch and network

**9 port 10/100/1000Mbps  
Managed Ethernet Switch  
with (7) 10/100/1000TX +  
(2) 1000FX or 100/1000TX  
SFP ports**



**CWGE9MS**      Managed Ethernet Switch

- (7) 100/1000 BASE-TX and (2) 100/1000FX combo ports
- Ports 1 – 7 support the 10/100/1000 Mbps Ethernet IEEE 802.3 protocol
- Ports 8 – 9 are 10/100/1000 configurable for copper or 1000 fiber media for use with multimode or single mode optical fiber without need for configuration, selected by optional SFP modules
- Ambient operating temperature range: 0° C to +50° C
- LED indicators for monitoring the operating status of the managed switch and network

## Modular 24 Port Configurable Managed Ethernet Switch



### CWGE24MODMS (append codes below)

<b>/Chassis</b>	Managed Ethernet Switch Chassis
<b>/8TX</b>	8 Port 10/100/1000T module
<b>/8FXSCM1</b>	8 Port 1000FX module
<b>/8FXSCS1</b>	8 Port 1000FX module
<b>/8FXSFP</b>	8 Port SFP module
<b>/8TX4SFP4</b>	4 Port 10/100/1000T + 4 SFP module

- 24 configurable Ethernet Ports can be customized by the selection of three 8 port expansion modules
- Easily configurable through 8 port modules that allow for combinations of copper, optical and small form factor pluggable (SFP) modules
- 24 electrical ports support the 10/100/1000 Mbps Ethernet IEEE 802.3 protocol
- Layer 2 managed switches are optically (1000 BASE- FX) and electrically compatible with any IEEE 802.3 compliant Ethernet devices
- Ambient operating temperature range: 0° C to +50° C

POWER SUPPLY INCLUDED | FIVE YEAR WARRANTY

## Small Form Factor Pluggable (SFP) Modules



### **SFP-X**

**Optical Module (see Data Sheet)**

The ComNet line of SFP modules expands the flexibility of the entire ComNet Ethernet product line. ComNet SFPs come in a variety of media types; copper, multimode and single mode optical fiber. They are available in distances up to 120 km and with SC and LC fiber connectors. ComNet SFPs are used in ComNet managed and unmanaged switches as well as media converters. Using ComNet SFPs ensures that the ComNet Warranty stays in effect with all ComNet Ethernet Products.

# DESIGN CENTER

The ComNet Design Center provides technical pre-sale telephone support for fiber optic system design and engineering assistance for when you require one-on-one help from a fiber optic communication specialist.

The ComNet Design Center service is a free service to those interested in designing and implementing a fiber optic or Ethernet network.

**This service is available  
Monday through Friday,  
8:30 a.m. to 5:00 p.m. EST.**



Our direct Design Center phone number is **1 (888) 678-9427** or call **1 (203) 796-5300** and ask for the Design Center, or contact us by Email at [designcenter@comnet.net](mailto:designcenter@comnet.net).

For more information on the complete line of ComNet products please visit [www.comnet.net](http://www.comnet.net).

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