

**VAYU 2W/4W** is a G.SHDSL.bis modem which extends distances of fast Ethernet service with variable data rate from 256Kbps to 30 Mbps using TC-PAM (Trellis Code –Pulse Amplitude Modulation) technology.

G.SHDSL.bis technology extends transmissions farther than any other DSL technology, opening the door for service providers to deliver low cost and broadband access to a wider subscriber base. They are cost-effectively to extend Ethernet distance up to several kilometers via one or two pairs of twisted copper cables, which is widely and commonly used in subscriber local loops. The modem employs TC-PAM128 compliant G.SHDSL.bis technology and EFM bonding to provide maximum 30Mbps symmetrical data over 2-pairs of twisted copper lines.

### Key Features

- Provides 10/100 Mbps data connectivity on 1-pair / 2-pair unconditioned twisted copper pairs.
- Operates at multiple data rates from 256 Kbps to 15040 Kbps on one-pair cable and 512Kbps to 30080 Kbps on two-pair cable.
- TC-PAM64 (11.4 Mbps/pair) : supports 4 wires up to 22.8 Mbps
- TC-PAM128 (15 Mbps/pair) : supports 4 wires up to 30 Mbps
- Supports EFM bonding
- LED indicators for alarms

## TECHNICAL SPECIFICATIONS

### SHDSL Line Interface Specifications

Line type	: 2 or 4 Wire (twisted pair operation) Configurable
Line Code	: TCPAM as per the ITU-T G991.2
Line Impedance	: 135 Ohms
Connector	: RJ45
Transmit Signal Power up to	: 16.8dBm
Line protection	: As per ITU-T K20 and K21
Specification	: ANSI T1.601
Distance	: Supports Various Rate-Range Configurations

### Ethernet Interface Specifications

No. of Ethernet ports	: (1/4 Port), RJ45 connectors for UTP cables
Interface Compliance	: IEEE 802.3 Compliant
Bridging Protocol Supported	Ethernet Over First Mile EFM Protocol
10Base-T and 100Base-TX support	

### System Specifications

line speed on one pair cable is  $N \times 64\text{Kbps}$  (where  $N= 4$  to 235)  
line speed on two pair cable is  $N \times 128\text{Kbps}$  (where  $N= 4$  to 235)

### Front Panel Indications

Interface status and system status

# TEAMLINK 3002 VAYU 2W/4W

## High Speed Ethernet Extender

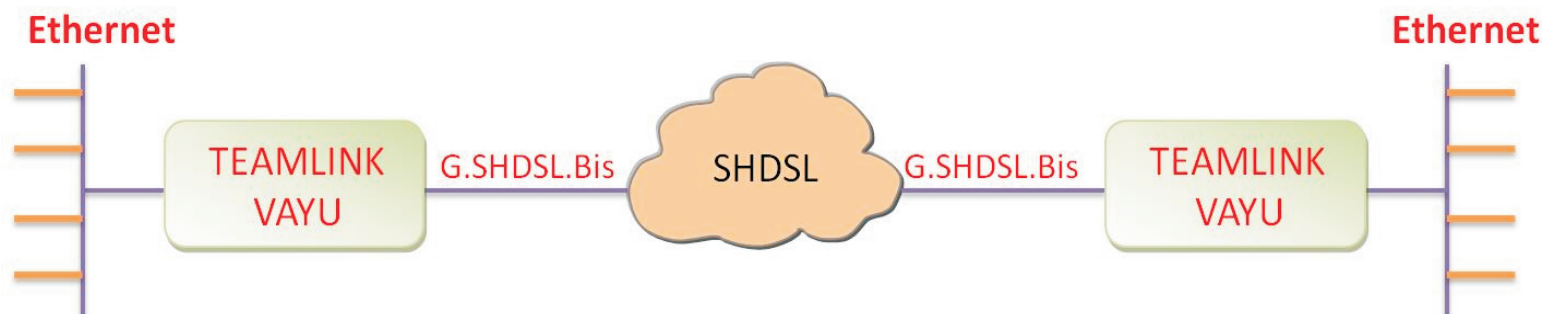
### Power Supply

Operating Voltage 230VAC 50/60 Hz Operation and 48V DC  
Single Power Supply Supports both the AC and DC voltages

### Environment

Operating Temperature : 0 ~ 55°C  
Humidity : 5% ~90% non-condensing  
Storage Temperature : -40 ~ 70°C

### APPLICATION DIAGRAM



### Ordering VAYU 2W/4W

VAYU/FE/4W/AC/DC	G.SHDSL.bis modem with one 10/100M Fast Ethernet port (RJ45) and 2W/4W G.SHDSL.bis port (RJ45)
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