

# **2Mbps Digital Modem**

## **TECHNICAL SPECIFICATIONS**

#### **G.SHDSL LINE INTERFACE**

Line type : 2Wire (single pair operation)Line Code : TCPAM as per the ITU-T G991.2

Line Impedance: 135 Ohms

Connector : RJ45

Transmit Signal Power : 3.5dBm +/- 0.5dBm

Operating Range: 6Km on 0.5mm dia copper cable @ 2.048Mbps in 2 wire operation, 7.5Km on 0.5mm dia copper cable @

2.048Mbps in 4 wire operation and 11Km on 0.5mm dia copper cable @ 64Kbps in 2 wire operation

Line protection : As per ITU-T K20 and K21

Transmit Level : Upto 14dBmLine Code transmission

Specification : ANSI T1.601

Connector: RJ 45 and 3 Pin terminal Block.

#### PLUGGABLE DIGITAL USER INTERFACES

- G703 E1
- V35 / RS530 / X.21
- 2/4 Port Ethernet Switch
- G703 Co-dir
- Interchangeable digital interface cards in given modem
- The same V35 modem should work with G703E1 or G703 Co-Dir modem
- The same Ethernet modem should work with G703E1 or G703 Co-Dir modem

### **G703 E1 INTERFACE SPECIFICATIONS**

Line Rate : 2048 KbpsLine Code : HDB3

• Interface : E1 Interface as per ITU-T G.703, G.704

Impedance : 120 Ohms (Balanced), Optional : 75 Ohms (Unbalanced)

Connector: RJ45 for Balanced and BNC for Unbalanced

Clock Mode : Internal clock or G.703 Recovered clock

Framed and Unframed Operation

User selectable CRC-4 Generation and Detection

## **V35 INTERFACE SPECIFICATIONS**

Interface Type : V35

Connector : V34 Pin Female Connector

Data Rates : 2.304 Mbps (nX64 Kbps, n=1 to 36)

Clock Modes : Internal clock, Line Recovered clock

or External clock

Connector: RJ45 for Balanced and BNC for Unbalanced

Clock Mode : Internal clock or G.703 Recovered clock

Framed and Unframed Operation

User selectable CRC-4 Generation and Detection

### **ETHERNET INTERFACE SPECIFICATIONS**

- No. of Ethernet ports: 2/4 (2/4 Port Switch), RJ45 connectors for UTP cables
- Interface Compliance : IEEE802.3 Compliant
- 10Base-T and 100Base-TX support
- 2 K MAC address level filtering
- Transparent Ethernet Bridge, Auto learning and aging
- Auto Speed Sensing
- Auto polarity detection





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#### **G703 CO-DIR INTERFACE SPECIFICATIONS**

ITU-T 703 4 wire Co-Directional interface

Speed : 64KbpsLine Code : AMI

Connector : RJ 45 or Terminal block

Clock Mode : Internal clock or G.703 Recovered clock

#### **DIAGNOSTIC TESTS**

- Local Loopback, Digital Loopback and Remote Loopback as per the V.54
- Built in test 511 pattern generation and checking.
- Diagnostics & Monitoring through EOC Channel without interfering data transmission.
- Loop backs, test pattern generation and checking using front panel switches.
- SNMP Management Port & TELNET.

#### **MODEM CONFIGURATION**

- Management port operating speed 9600, No Parity and stop Bit and also using Dipswitch settings.
- Configuration & Status Monitoring through SNMP, LCD & TELNET Ethernet Port
- STATUS MONITORING: Using SNMP and TELNET
- LED INDICATIONS: PWR, MR, COT, DSL LINK, E1 SYN/DTR/ETH LINK ACT, AIS/RTS/SPD, PAT, ERR, TST, NMR
- BUILT-IN POWER: DUAL MODE AC/DC, 230VAC +/- 10% & -48VDC +/-10%
- TEMPERATURE : -5 To 50°C
- HUMIDITY: Upto 95% non condensing at 35°C

TEC Approval: As per IR/DCA-18/04. Oct 2005

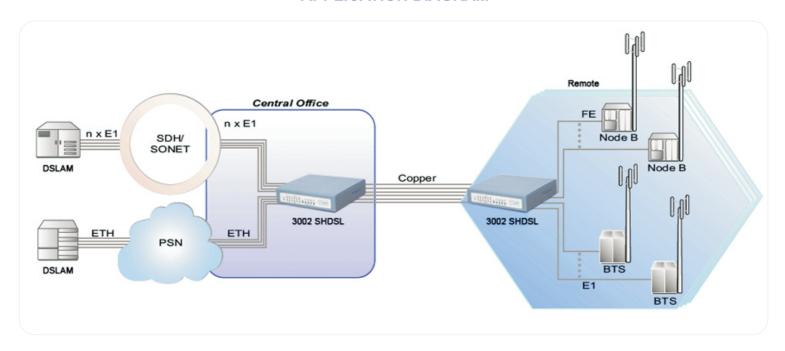
## **FEATURES**

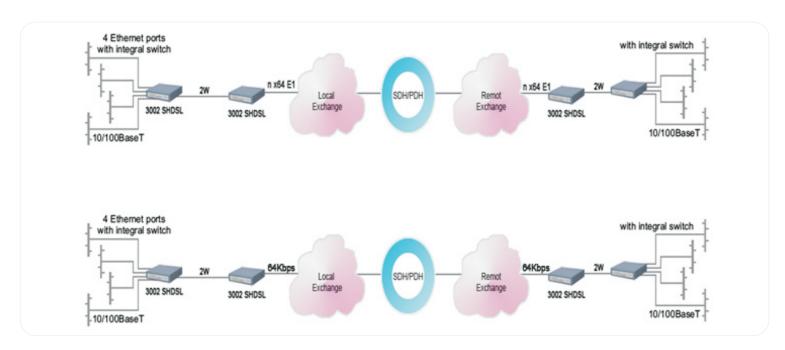
- Provides multi stage line protection as per K.20 and K.21
- External Secondary optional Line Protection Device
- Long reach up to 11Km for standard 64Kbps speed
- Interchangeable user interface cards in the same modem and field upgradeability
- Support for Balanced and Unbalanced operation for G703 E1
- The same V35/Ethernet RT modem should work with G703E1 or G703 Co-Dir COT modem
- User interface cards can be ordered optionally depending on the field requirement
- Noise Margin Indication for sensing line quality
- LED/LCD front panel as an option
- Status monitoring using SNMP & TELNET
- Rugged Metallic Aluminum casing
- AC and DC built-in power supply



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### **APPLICATION DIAGRAM**







Plot No. A-1/2/A, Industrial Park, Uppal,

Hyderabad - 39,AP(India)

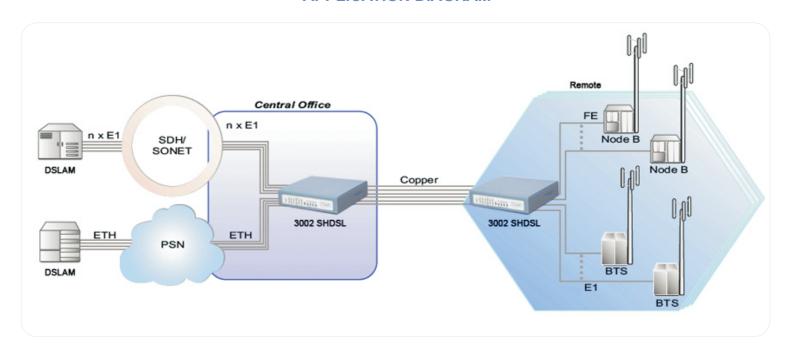
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## **APPLICATION DIAGRAM**







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