



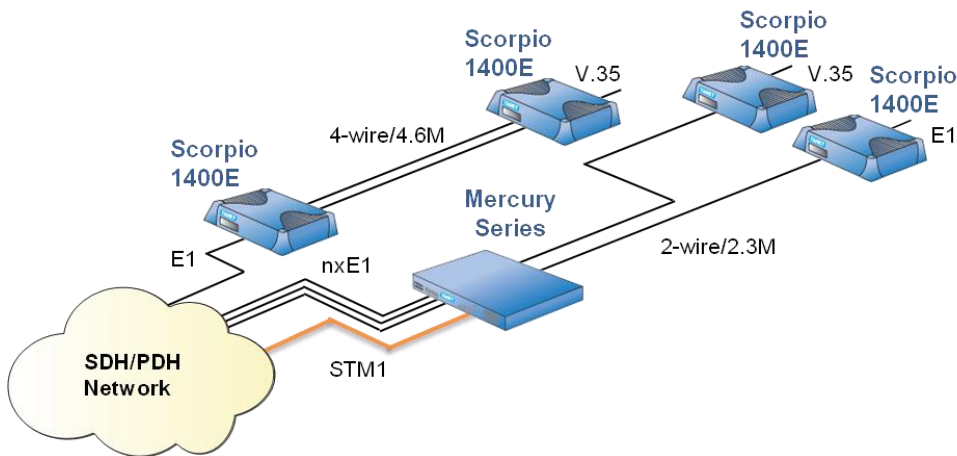
- Full compatible with ITU-T G.991.2 and G.994.1
- Carrying symmetrical 2.304 Mbps payload for up to 20kft over 26-AWG single pair copper wire and 4.608 Mbps payload for two pairs copper wires
- Embedded operations channel (EOC) for control and diagnostics in CO and CPE
- Supports Timing and Synchronization: Internal, DTE and Line timing
- TFTP firmware upgrade available
- Remote control / monitoring via Telnet and Ethernet
- Supports SNMP agent with the standard MIB file
- Supports the Internal BERT testing function
- Provides various loopback function for testing and diagnostic purpose

TAINET Scorpio 1400E is a G.SHDSL modem solution adopting 16 TC-PAM line coding, equalization, adaptive filtering and echo cancellation technologies. It provides high-speed, symmetric data transmission over single/dual twisted pair copper cable and allows multiple xDSL lines to coexist on the same cable bundle.

The transmission data rate can go up to 1536 Kbps, 2048 Kbps and 2304 Kbps, up to 4608 Kbps for 4 wire solution. Services are extended through the copper wires or leased lines with the technologies of G.SHDSL. Various interface extensions are supported on Scorpio 1400E: E1, DATA (V.35, V.36/RS-449, X.21, RS-530).

For remote accesses, the user can control through Embedded Operations Channel (EOC) without visiting the actual location. Other than that, its built-in Ethernet port supports SNMP agent with the standard MIB files.

All of the above features make Scorpio 1400E an ideal solution for various applications using leased line connections such as internet access, voice service, digital data networks, and mobile networks. The Scorpio 1400E series can be configured to work as a desktop CPE device or a stand-alone CO unit. It also interoperates TAINET Mercury Series, the Integrated Access Devices (IAD).



Model

- Scorpio 1400E/2-wire, Data
- Scorpio 1400E/4-wire, Data
- Scorpio 1400E/2-wire, E1
- Scorpio 1400E/4-wire, E1
- Scorpio 1400E/2-wire, Data+E1
- Scorpio 1400E/4-wire, Data+E1

Line Interface - G.SHDSL

- Type: 2 or 4-wire
- Line coding: TC-PAM 16
- Compliant with ITU-T G.991.2,
- Loop rate: Nx64 + 8K (N=3~36) up to 2320 Kbps (2-wire), (N=6~72) up to 4624 Kbps (4-wire)
- Data rate: 64 K to 4608 Kbps (4-wire)
- Connector: 1xRJ-45
- Impedance: 135 Ω

DTE1 Interface - E1

- Data Rate: nx64 kbps (n=1~31), 2.048 Kbit/s ± 50 ppm
- Connector: RJ-45 / BNC
- Line coding: HDB3
- Framing: Framed /Framed+CRC /Unframed
- Compliance: ITU-T G.703, G.704
- Jitter Performance: compliant with ITU-T G.823
- Line impedance: 120Ω (balanced) / 75Ω (unbalanced)

DTE2 Interface - Nx64k Data

- Data rate: nx64 Kbps, (n=1~36, 2-wire; n=2~72, 4-wire)
- Supports V.35, V.36, X.21 and RS530
- Connector: DB-25 Female with optional adapter cable (V.35/X.21/RS530)
- DTE and DCE clock settings
- TX data and RX data inversion

Timing Source Function

- Clock source: Internal / DTE / Receive / Hybrid
- Clock accuracy: ± 32 ppm

Management

- Configuration via front panel LCD and keypad, craft port, Telnet and SNMP
- Console: DB9 connector (RS232C), 115200,8-n-1
- Supports remote management
- Supports Performance Monitoring function
- Ethernet port: 10/100 Mbps (supports SNMP agent)

Loop Test

- Local Loop Back
- Remote Loop Back
- Local Payload Loop Back
- Remote Payload Loop Back
- Supports V.54 Loopback for V.35 interface
- Build-in BERT with 2¹⁵-1 test pattern

LED Indicators

- PWR: Power indicator
- CPE: CPE or CO site indicator
- DSL: DSL status indicator
- DTE1: E1 interface indicator
- DTE2: Data interface indicator
- ALM: Alarm indicator
- TST: Test status indicator

Power Requirement

- External AC or DC power adapter
- Built-in AC+DC power module for redundancy
- Power consumption: < 12W

Dimension

- 245(W) x 200(D) x 60(H) mm

Operating Environment

- Operating Temperature: 0 °C ~ 50 °C
- Storage Temperature: -40 °C ~ 70 °C
- Operating Humidity: 0% ~ 90% (indoor, non-condensing)
- Storage Humidity: 0% ~ 95% (non-condensing)

Certification

- FCC part15, part68, CE, CCC

Note: Features and specifications are subjects to change without prior notice