

# PRISM 3111/3112

Broadband Access Solutions

## HIGHLIGHTS

- Connect to high-speed digital T1/FT1
- Avoid mission critical failures with integral dial back-up port
- Assign digital voice channels to any T1 ready PBX
- Embedded SNMP Agent
- Easy to install and operate



Verilink's PRISM 3111 and 3112 T1 CSU/DSUs offer network administrators an advantage in voice and data applications. Verilink gives the end user visibility to network problems, flexibility to changing needs, and the agility to avoid failures.

The PRISM 3111/3112 are available with one or two high speed interfaces, each capable of filling the entire T1 span. An additional T1 DTE port is offered for PBX or other T1 compatible applications. T1 and FT1 support reduces cost by eliminating wasted bandwidth.

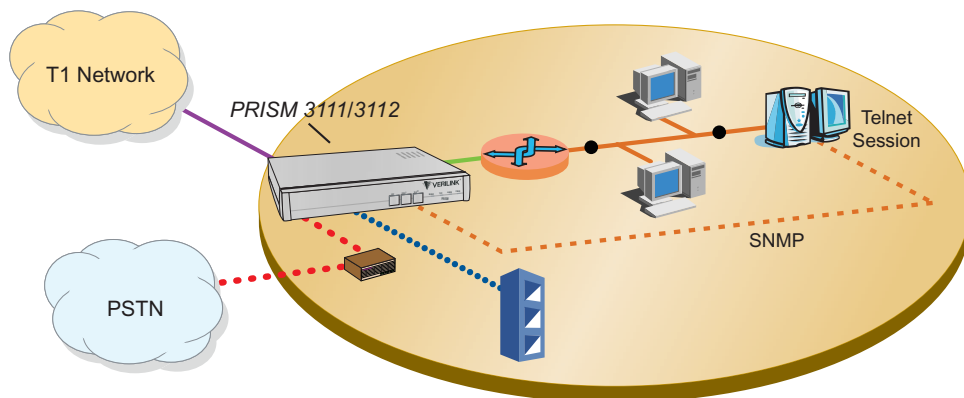
The PRISM 3111/3112 support disaster recovery applications with integral dial back-up port. The intelligent and automatic back-up response insures networks against outages. Mission-critical traffic is quickly re-routed, side-stepping the network failure while less essential traffic waits for full service restoral. Normal traffic flow is never impacted by network monitoring or verification functions.

Straightforward and intuitive installation, with a variety of interface options, is the calling card of the PRISM 3111/3112. Management access via ASCII terminal, LCD panel or SNMP tools is available. Operational networks easily accept change using remote in-band management and FLASH upgrade features.

An array of integrated monitoring aids assist in all operational activities. The call on alarm (COA) feature alerts when a user-defined threshold is exceeded, 30-day performance statistics give a clear picture of performance, and built-in loopbacks/ BERTs (bit error rate tests) quickly pinpoint network trouble spots. In larger networks, this suite of tools is enacted from a central site using the Verilink 8100A Site Manager.

The PRISM 3111/3112 T1 CSU/DSUs offer the flexibility of embedded SNMP for SLIP or Ethernet. This capability offers a consolidated station for complete, far reaching management.





**PART NUMBER AND DESCRIPTION**

- F-3111-001- -1311001: V.35, SLIP and 115 VAC
- F-3111-001- -1311011: V.35, DSX-1 (RJ-48C), SLIP, 115 VAC
- F-3111-001- -1311101: V.35, Ethernet, 115 VAC
- F-3111-001- -1311111: V.35, DSX-1 (RJ-48C), Ethernet, 115 VAC
- F-3111-001- -1311121: V.35, Ethernet, DSX-1 (RJ-48x), 115 VAC
- F-3111-001- -1312001: EIA-530, SLIP, 115 VAC
- F-3111-001- -1312011: EIA-530, SLIP, DSX-1 (RJ-48C), 115 VAC
- F-3111-001- -1312101: EIA-530, Ethernet, 115 VAC
- F-3111-001- -1312111: EIA-530, Ethernet, DSX-1 (RJ-48C), 115 VAC
- F-3111-001- -1341001: V.35, SLIP, -48 VDC
- F-3111-001- -1341011: V.35, SLIP, DSX-1 (RJ-48C), -48 VDC
- F-3111-001- -1341101: V.35, Ethernet, -48 VDC
- F-3111-001- -1341111: V.35, Ethernet, DSX-1 (RJ-48C), -48 VDC
- F-3111-001- -1341121: V.35, Ethernet, DSX-1 (RJ-48x), -48 VDC
- F-3111-001- -1342001: EIA-530, SLIP, -48 VDC
- F-3111-001- -1342011: EIA-530, SLIP, DSX-1 (RJ-48C), -48 VDC
- F-3111-001- -1342101: EIA-530, Ethernet, -48 VDC
- F-3111-001- -1342111: EIA-530, Ethernet, DSX-1 (RJ-48C), -48 VDC
- F-3112-001- -1311001: Dual V.35, SLIP, 115 VAC
- F-3112-001- -1311011: Dual V.35, DSX-1, SLIP, 115 VAC
- F-3112-001- -1311101: Dual V.35, Ethernet, 115 VAC
- F-3112-001- -1311111: Dual V.35, Ethernet, DSX-1, 115 VAC
- F-3112-001- -1312001: Dual EIA-530, SLIP, 115 VAC
- F-3112-001- -1312011: Dual EIA-530, SLIP, DSX-1, 115 VAC
- F-3112-001- -1312101: Dual EIA-530, Ethernet, 115 VAC
- F-3112-001- -1312111: Dual EIA-530, Ethernet, DSX-1, 115 VAC
- F-3112-001- -1341001: Dual V.35, SLIP, -48 VDC
- F-3112-001- -1341011: Dual V.35, SLIP, DSX-1, -48 VDC
- F-3112-001- -1341101: Dual V.35, Ethernet, -48 VDC
- F-3112-001- -1341111: Dual V.35, Ethernet, DSX-1, -48 VDC
- F-3112-001- -1342001: Dual EIA-530, SLIP, -48 VDC
- F-3112-001- -1342011: Dual EIA-530, SLIP, DSX-1, -48 VDC
- F-3112-001- -1342101: Dual EIA-530, Ethernet, -48 VDC
- F-3112-001- -1342111: Dual EIA-530, Ethernet, DSX-1, -48 VDC

**Legend**

- PSTN
- PBX
- SNMP
- DSX-1
- T1 Network
- Modem
- T1
- DBU
- Router
- V.35

**NETWORK INTERFACE**

Line Rate: 1.544 Mbps (± 50 ppm)  
 Line Framing: D4 or ESF  
 Line Code: AMI or B8ZS  
 Input Signal: 0 to -27 dB (ALBO)  
 Connection: RJ-48C jack, 100 ohms ± 5%  
 Output Signal: 3.0 V Protection, base-peck into 100 ohms with protection  
 Line Build Out: 0, -7.5, -15, -22.5 dB Attenuation  
 Transient Voltage: 1000 V Protection, fused input/ output  
 Jitter Control: per TR 62411 and T1.403  
 Timing Source: Internal, recovered line clock, external DTE (port 1 only on 3112), T1 DTE  
 Ones Density: B8ZS, Nx56 Bit stuffing, alternate fill; complies with TR 62411

**EQUIPMENT INTERFACE**

DTE Ports: 3111 – Single 34-pin (F) V.35 or Single 25-pin (F) EIA-530; 3112 – Dual 34-pin (F) V.35 or Dual 25-pin (F) EIA-530  
 Data Rates: Synchronous, Nx56/64, N=1 to 24, independent selection on each port  
 Clocking: Internal, external, oversample  
 Data Invert: Independent selection

**ALARMS**

Activation: Programmable thresholds (0 to 900 sec)  
 Reporting: Front panel LEDs, call on alarm (COA), SNMP traps

**INDUSTRY LISTINGS**

FCC Compliance: Part 15 Subpart B, Class A  
 FCC Part 68 Cert: FXKUSA-22083-DE-N  
 US Safety: 1454 2nd Edition (LR 62298)  
 Canadian Safety: LR 62298 (22.5 No. 225-M90)  
 Industry Canada: CS-03 (1653 6531 A)

**DIAGNOSTICS**

Performance: Monitoring per TR 54016 and T1.403  
 Network Loops: Line, payload or maintenance  
 Fractional Loops: Generates and responds to in-band V.54 loop code  
 DTE Port Loops: Bi-directional loop toward network or DTE  
 T1 DTE Loops: Line loop, maintenance loop toward DTE  
 BERT: Multiple test patterns toward network or DTE

**POWER REQUIREMENTS**

115 VAC: 120 mA, 7 W maximum, 24 BTU maximum  
 48 VDC: 180 mA, 9 W maximum, 31 BTU maximum

**MECHANICAL**

Mounting: Stand-alone, rack or wall  
 Dimensions: 11.75 in. W, 1.75 in. H, 9.5 in. D (1 RU)  
 Weight: 3 lb

**ENVIRONMENTAL**

Operating Temperature: 0 to 50 °C (32 to 122 °F)  
 Storage Temperature: -20 to 85 °C (-4 to 185 °F)  
 Humidity: 95% maximum, non-condensing

