96 Series

**xDSL POTS Splitter Module**

Utilizes Tii’s Switchable RJ-11 Jack (Auto-Jack®)

Occupy Only One Position in Network Interface Device

Eliminates RJ-11 Plug Maintenance Problems

Environmentally Sealed IDC Terminations for xDSL and Voice Signals

Exceeds Telcordia Severe Lightning Surge Requirements

Compatible with The CAC 7600 Network Interface Device

The 96 Series xDSL POTS Splitter Module splits the combined voice and data signal carried on telephone lines to provide separate outputs for both phone and data services.

**KEY PRODUCT BENEFITS**

- Module’s unique design provides customer bridging and xDSL POTS splitting all in one module which occupies only one position in the Network Interface Device
- Module easily snaps in and out of the customer side of the NID and occupies only one position, thereby not compromising the NID’s overall capacity
- Designed for use in a wide variety of Network Interface Devices (NIDs) at the customer premises
- Splitter makes it possible to use a single phone line to provide both telephone and xDSL internet access
- With module installed, an additional standard POTS line module is not needed
- Module includes Tii’s unique patented Auto-Jack® RJ-11 receptacle. It requires no plug for normal operation and delivers unparalleled reliability
- When engaged, the Tii Auto-Jack® connects the RJ-11 test plug contacts to the Central Office (CO) for dial tone validation while disconnecting the customer from the circuit
- Auto-Jack® assembly includes a sealed test point access feature, which allows craft to test subscriber wiring even while a test plug is mated into the Auto-Jack® receptacle. This greatly facilitates the testing process.
- Standard features such as customer locking/telco bypass, and hinged covers are all part of Tii’s splitter module
- Splitters can be selected per application as shown in “Ordering Information”

**INDUSTRY STANDARDS**

- Auto-Jack® RJ-11 unit exceeds Telcordia GR-49 CORE requirements for severe climatic conditions, both first and second level lightning surge requirements in the open and short circuit mode.
- ANSI T1.424 Compliant
- Listed to UL 1863
96 Series

SPECIFICATIONS

**Electrical** *(Complies with ANSI T1.424 Issue 2 Annex E)*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Loop Current</td>
<td>0 to 100 mA</td>
</tr>
<tr>
<td>DC Loop Voltage (tip-to-ring)</td>
<td>0 to -60V dc</td>
</tr>
<tr>
<td>Ringing Signals</td>
<td>103 Vrms superimposed on the DC Loop Voltage; 20 - 30 Hz</td>
</tr>
<tr>
<td>DC Resistance</td>
<td>&lt; 20 ohms, POTS tip-to-ring with Line port (U-R) shorted</td>
</tr>
<tr>
<td>Insertion Loss (Short &amp; Long Loop)</td>
<td>≤ 0.5 dB</td>
</tr>
<tr>
<td>Tip-to-Ring Capacitance, POTS port</td>
<td>20 ≤ C ≤ 100 nF; 20 - 30 Hz</td>
</tr>
<tr>
<td>Input Impedance (Measured Level)</td>
<td>≤ 0.25 dB; 30 - 1104 kHz, ZTr = 600</td>
</tr>
</tbody>
</table>

**Attenuation Distortion (Voice Band), Increase Relative to Insertion Loss at 1004 Hz**

- 0.7 to -0.5dB; 200 - 3.4 kHz, short loop, ZTc = 900, ZTr = 600
- 0.7 to -0.5dB; 3.4 - 4.0 kHz, short loop, ZTc = 900, ZTr = 600
- 0.4 to -0.5dB; 200 - 3.4 kHz, long loop, ZTc = 900, ZTr = 600
- 0.5 to -0.5dB; 3.4 - 4.0 kHz, long loop, ZTc = 900, ZTr = 600

**Delay Distortion (Voice Band)**

< 25μs

**Return Loss (Voice Band) (Short & Long Loop)**

> 7 dB

**Longitudinal Balance, Two Port Technique, DSL to Line Port (U - R) and Line Port (U - R) to POTS**

> 60 dB; 200 - 1.0 kHz

> 55 dB; 1100 kHz - 30 MHz (Model # 96-00-4-00)

**Capacitance to Ground, POTS Port**

≤ 1.0 nF; 20 - 30 Hz

**DSL Band Attenuation**

> 55dB; 300 - 1104 kHz (Model # 96-00-1-x)

> 55dB; 300 – 12 MHz (Model # 96-00-4-00)

> 55dB; 300 – 30 MHz (Model # 96-00-5-00)

**Environmental**

**Lightning Surge**

GR-1089 CORE Level 1 and Level 2 Surge

**Power Cross**

GR-1089 CORE First and Second Level AC Power Fault Immunity

**Operating Temperature**

-40˚C to +65˚C (-40˚F to 149˚F)

**Relative Humidity**

0 to 95%, non-condensing

**UL Listed**

As a communication circuit accessory

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>96</th>
<th>-00</th>
<th>-X</th>
<th>-X</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>Input Termination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 = ADSL Compatible Splitter</td>
<td>0 = No Connectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 = ADSL2+, IPTV Compatible Splitter</td>
<td>1 = With Spade Connectors</td>
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<td></td>
</tr>
<tr>
<td>5 = VDSL Compatible Splitter</td>
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</table>

Dimensions are in Inches