

GENERAL PURPOSE NIU

3125 SERIES T1 NETWORK INTERFACE UNIT

The 3125 family of T1 NIUs is part of Westell's total T1 solution package that makes Westell your single source for T1 access equipment. As the originator of the NIU, Westell continues to offer you the first in T1 access innovations. The unique implementation of our original auto-termination circuitry, provides you with a functioning NIU where others fail. It is just part of the creativity and superior quality that you have come to expect from Westell, the leader in T1 Access Technologies.

The 3125 General Purpose T1 NIU is designed to provide a comprehensive set of maintenance loopback functions, jack/circuit access, and advanced trouble sectionalization capabilities for your traditional repeatered spans. Because it can be both span and locally powered, the 3125 series T1 NIU can also support applications behind a multiplexer, or anywhere

you need high quality loopback capability. Additionally, we offer remote activation of LB and our unique auto-termination circuitry which is critical in supporting off site diagnostics and testing. (See back page) All of this powerful functionality is compacted into an NIU that is simple to configure and install.

If it's NIUs, Repeaters, or circuit protection, Westell offers you the highest quality of innovative solutions for all your T1 applications.



FEATURES/BENEFITS

- Automatic detection of inband and out-of-band loopback codes for flexibility in testing
- Loopback regeneration insures clear signal for testing
- Loopback LBO allows for cable length adjustments
- Continuous bi-directional monitoring of transmit paths for loss of signal insures immediate reaction to crisis situations
- Unit can be optioned to respond with loopback, AIS, or CDI in the instance of Transmit path LOS to guarantee maximum availability of your HiCap services
- Remote and local powering capability allow for maximum flexibility in deployment
- Full selection of monitoring and breaking type jacks for maximum flexibility in on-site troubleshooting situations

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SPECIFICATIONS

Packaging:

- Half-Width "SlimJack" Mechanics
- Standard T1 NIU pin-out plan

Dimensions

- Width: 0.7 in
- Height: 5.6 in
- Depth: 5.9 in

Weight

- Approximately 6 oz

Transmission

- Auto-Termination Circuitry Loopback Regeneration
- Fail-safe transmission paths under loss of power
- Optional receive (CPE) regeneration
- Optional transmit (network) regeneration
- Optional transmit signal limiter with loopback LBO

Loopback Control Criteria

- Per TR-TSY-000312
- Repeating patterns or ESF Data Link messages
- Front Panel manual-loopback button
- Optional dual loopback

Framing and Line Code Compatibility

- SF, ESF T1.403, ESF 54015
- AMI, B8ZS

Operating Environment

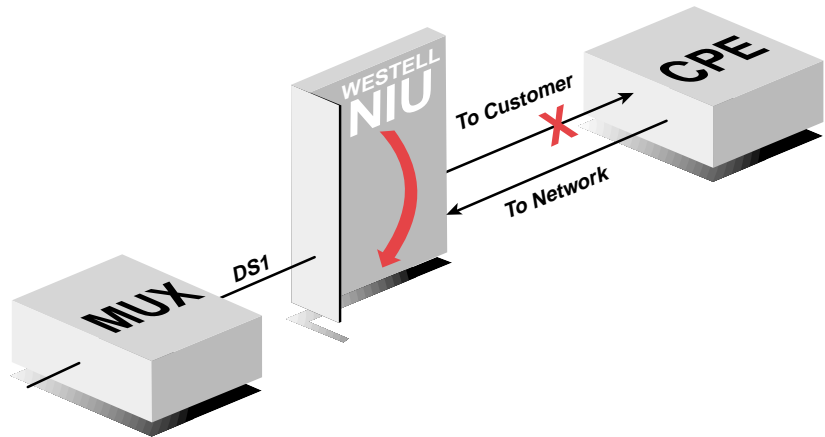
- -40° to +65° C
- Humidity to 95% (non-condensing)
- Lightning and power cross: Meets Bellcore GR 1089-CORE

Power

- Span: 24 V at 60 mA
- Local: 22 to 56 Vdc

Regulatory and Safety

- Recognized component UL 1459

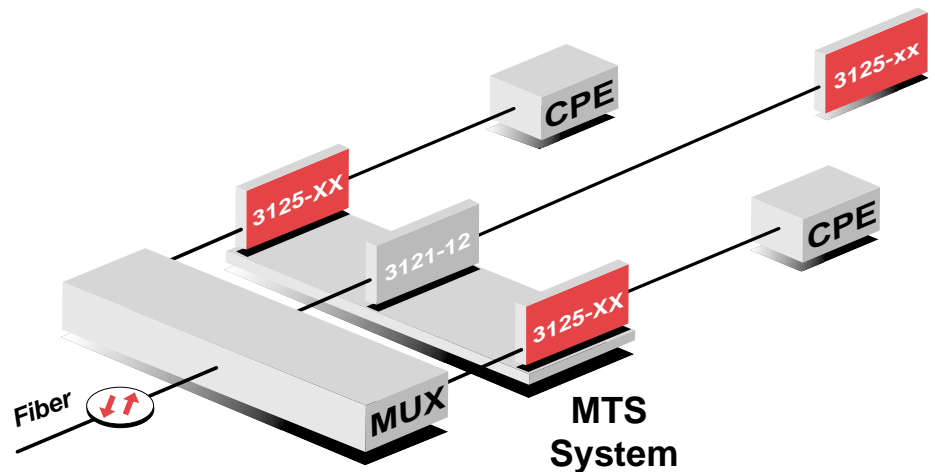
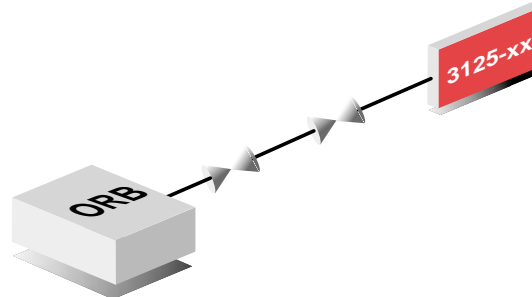


Autoterm Plus enables loopback in the event of a break in the receive path. Common causes of this problem include:

- wire cut
- wire pulled off of 66 block
- staple cuts
- Disconnected CPE

Without Autoterm Plus, your NIU cannot be put into loopback in any of these events. The NIU cannot do what it is made for, requiring an on site call.

Tested in over 900 combinations of cable lengths, output drivers, and signal levels. No other NIU is as reliable.



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