April 15, 2015

# Product Bulletin

**For TALAN VoIP Analysis Software**

**This bulletin outlines a variety of enhancements to the TALAN Telephone and Line Analyzer including Voice-over Internet Protocol (VoIP) software.**

## New VoIP Analysis Capabilities for TALAN

VoIP phone testing software is now built into the TALAN allowing the user to detect and analyze internet protocol (IP) packet traffic on VoIP phones.

Captured packet information includes source and destination Mac addresses; header type; total packets; packet rate; peak rate; run time and more.  Users can also define advanced filtering options.  Collected data can be stored and exported to USB or Compact Flash media as data files for further analysis and reporting.

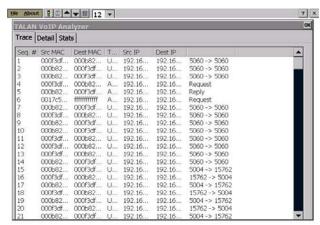The TALAN VoIP Analysis software can be downloaded from REI's website for existing units.



## VoIP Adapter

A passive VoIP test Adapter is included with new units allowing the TALAN to connect to a VoIP line. The VoIP Test Adapter has two CAT5 connector ports in which the phone and network cables are plugged, allowing normal phone activity to take place.  The TALAN connects to the RX (receive) or TX (transmit) ports to access incoming or outgoing traffic.

The adapter acts as a passive tap on 10/100 Mbps networks. If connected to a network that operates at faster rates (1Gbps+), the adapter is designed to force the network to auto-negotiate down to the 100Mbps rate compatible with TALAN.

Additional adapters for multiple phones can be purchased by contacting REI Sales.

To connect the TALAN to systems at higher than 100 Mbps rates that will not auto-negotiate down to 100 Mbps, a third party switch could be used to provide a mirrored port at 100 Mbps while not affecting the gigabit traffic and still providing POE.


VoIP Test Adapter



## Improved Audio Amplifier

The Audio Amplifier circuit board provides increased gain and reduced noise at higher gain levels for improved audio detection.

## Improved Digital Multi-Meter (DMM) Quality

Capacitance, low frequency AC voltage and resistance measurements have been improved to provide better accuracy and reliability while conducting DMM tests on phones and lines.  A new user-controlled zero calibration function allows the unit to be calibrated as needed.

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## Improved Support Stand

An improved stand design provides better support and stability while minimizing stress points.

## TALAN Upgrade Package for Current Owners

REI is offering a TALAN Upgrade Package to provide all of these same enhancements to present owners. VoIP software can be downloaded free from the REI website and does not require an upgrade; however, other improvements previously outlined require factory hardware changes. The TALAN Upgrade Package includes:

- VoIP Software Installation
- Audio Amplifier Upgrade
- DMM Upgrade
- VoIP Test Adapter
- Input Matrix Upgrade – for RF surge protection to reduce noise
- Replace Line and Phone Input Jacks – due to wear that can cause loose connections
- New Support Stand
- Improved Magnetic Case Latch
- Touch Screen Test and Flashing Adjustments
- New battery
- New manual
- Full 25 Point Diagnostic Check-up Plus Recalibration

Contact REI at sales@reiusa.net for pricing and to order the upgrade, parts and accessories.