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**TALAN ADVANTAGES**

- **Comprehensive and Integrated Testing:** The TALAN combines multiple tests into one piece of equipment, combining digital and analog telephone systems.
- **Quick Response:** With a 500msec sample rate, the TALAN detects electronic anomalies such as an Eavesdropping Tap on a wire.
- **High-Resolution Optical Encoder:** The 64MB SDRAM (OS) and 64MB Flash memory provide high-resolution optical encoder technology.
- **Expandable Accessories:** The TALAN supports communication and future accessories.
- **Low Cost:** The TALAN is a cost-effective solution for security and fault detection.
- **Easy to Use:** The TALAN’s digital and analog telephone systems are easy to use.
- **Future-Proof:** The TALAN is designed for future modifications and upgrades.
- **Versatile:** The TALAN is versatile, supporting communication and future accessories.

**DIGITAL MULTIMETER**

- **Testing 3.5mm input:** The TALAN supports 3.5mm input for microphone input and headphone output.
- **Testing 3.5mm connector:** The TALAN supports 3.5mm connector for future use.
- **Testing 3.5mm input:** The TALAN supports 3.5mm input for future use.
- **All Other Digital Input:** The TALAN supports all other digital input.
- **Digital Input:** The TALAN supports digital input for future use.

**RF SYSTEM**

- **RF SMB Input:** The TALAN supports RF SMB input to 8GHz.
- **Sensitivity:** The TALAN supports a sensitivity of -100dBm.
- **Bandwidth:** The TALAN supports a bandwidth of 18kHz.
- **Step Size:** The TALAN supports a step size of 1kHz.
- **Frequency Range:** The TALAN supports a frequency range of 30kHz to 85MHz.
- **Dual Conversion, Super-Heterodyne Receiver:** The TALAN supports dual conversion, super-heterodyne receiver technology.
- **All Inputs Electrically Isolated:** The TALAN supports all inputs electrically isolated for future use.

**Audio Bandwidths:**

- **Fixed voltage, or variable rate Sinewave Modulation:** The TALAN supports fixed voltage or variable rate sinewave modulation.
- **Sensitivity:** The TALAN supports a sensitivity of -65dBm.
- **Line Level Test:** The TALAN supports line level test to 100kHz to 600MHz.
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**Marketing Characteristics**

- **Case Dimensions:** The TALAN’s case dimensions are 5.4in x 14.9in x 19.5in.
- **Weight with Battery:** The TALAN’s weight with battery is 1lbs (.5kg).
- **Dimensions:** The TALAN’s dimensions are 10.0in x 12.9in x 2.7in.
- **Run-Time:** The TALAN’s run-time is 4-6 hours of run time.
- **Removable Battery:** The TALAN supports removable battery with a battery life of 10 hours average, 22 hours (headphones).
- **Universal Power Supply:** The TALAN supports a universal power supply of 100-240VAC, 50-60Hz.
- **Operational Frequency:** The TALAN supports operational frequency of 9V Alkaline.
- **Antenna Type:** The TALAN supports antenna type of Balanced Loopstick.
- **Operational Temperature:** The TALAN supports operational temperature of 0°C to +50°C.

**DPA 7000 TELEPHONE AND LINE ANALYZER**

- **Audio Bandwidths:** The TALAN supports audio bandwidths of (10Hz - 300Hz).
- **Fixed voltage, or variable rate Sinewave Modulation:** The TALAN supports fixed voltage or variable rate sinewave modulation.
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Digital Demodulation
Includes digital decoding capabilities for approximately 80% of the world's digital phone systems.

Non-Linear Junction Detection (NLJD) on a Line
The TALAN includes a NLJD test to detect electronics connected to an isolated line. This is one of the most powerful tests for quickly determining whether or not there are additional electronics attached to a wire.

The example to the right indicates a parallel tap on pair 4:5. Because of multiple pair combinations any combination with either a 4 or 5 indicates some response, but the electronics are clearly detected on pair 4:5 with the strongest response.

Digital Multimeter Tests
The TALAN includes basic multimeter tests such as Voltage, Current, Capacitance, and Resistance.

The automatic switching matrix allows the user to quickly measure and display results for all pair combinations, easily identifying any anomalies.

Frequency Domain Reflectometer (FDR)
Similar to a TDR (Time Domain Reflectometer), but based on a different technical approach, the TALAN’s FDR can “shoot” a line for impedance anomalies indicating a potential security threat.

The FDR also has the ability to plot multiple FDR traces on the same display for comparison of multiple pairs for historical comparison.

High Gain Audio Amplifier and Built-in Audio Oscilloscope
A DC Bias Voltage Generator (±80VDC) is also provided to power attached electronics.

Analyze digital, analog, and VoIP phone systems and wiring for faults, anomalies, and security risks.

Analyzing Telephone and Network Lines

Analyzing Telephone and Network Lines

RF Analysis and Detection
The TALAN includes a Spectrum Analyzer that provides a detailed frequency spectrum display up to 85 MHz. This function also includes a time domain display to show the modulation for AM and FM signals.

The TALAN also includes a Broadband RF Probe to check free space RF energy up to 8 GHz, graphing the RF level over time to identify the location of a transmitter.

VoIP Test Features
Built-in VoIP testing capability for internet protocol (IP) packet traffic on VoIP phones and systems. VoIP data collected by the TALAN software includes Source and Destination MAC/IP Addresses; header type; statistics - total packets; packet rate; peak rate and run time. Users can also define advanced filtering options. Data can be stored and exported to USB or Compact Flash as data files for further analysis, sharing and reporting.

Advanced filtering allows user-defined IP traffic detection tracing.

VoIP Test Adapter - A VoIP Test Adapter is included with new units allowing the TALAN to passively connect to non-POE (Power Over Ethernet), 10/100 Mbps network lines.

Test Data Storage and Analysis
The TALAN provides the ability to store test data for all testing functions in a database structure for future review or comparison.

The TALAN Data Viewer Software - A PC application that provides the ability to organize, analyze, and export TALAN test sequence data and charts for report writing. Moreover, the software provides the ability to compare numerous phones/targets on the same display allowing the user to quickly identify any anomalies compared to other phones tested. The TALAN Data Viewer Software is available free on REI’s website.

Harmonic Locator Probe (HLP)
The TALAN includes a Harmonic Locator Probe (HLP) used for tracing wires and determining the location of any electronics connected to the wire such as an eavesdropping device.

Spectrum Analyzer in the TALAN
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Includes digital decoding capabilities for approximately 80% of the world’s digital phone systems. The Digital Demodulation function provides the ability to determine if a digital phone line is passing audio when it should not.

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Spectrum Analyzer Notice on the TALAN

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TELEPHONE AND LINE ANALYZER
PATENTS PENDING

Analyze digital, analog, and VoIP phone systems and wiring for faults, anomalies, and security risks.

Suite of Telephone Tests including an Automatic Switching Matrix
The TALAN provides the capability to perform multiple tests to analyze communication lines for eavesdropping devices. The TALAN includes a built-in automatic switching matrix for testing all pair combinations. For example, if a cable has 8 conductors, there are 28 combinations of pairs to test; the TALAN can automatically switch through all combinations, performing test functions and storing test results for comparison.

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### TALAN ADVANTAGES

- **Compact Size of Data Collection Module**
- **All-in-One Equipment for Data Collection**
- **Automatic Measurement**
- **Quick Data Collection**
- **Easy-to-Use Design**

### TALAN STEPS

1. **Reset**
2. **Select**
3. **Stress**
4. **Measure**

### TALAN VARIABLES

- **Analogue Output:** 0 to 5V
- **Digital Output:** 1 bit

### TALAN FEATURES

- **10 Soft Menu Keys, 5 Button Quadrant**
- **High-Resolution Optical Encoder**
- **Internal Memory:** 64MB SDRAM (OS), 64MB Flash
- **External Memory:** Compact Flash Type III, 64MB SDRAM (OS), 64MB Flash
- **CPU:** 520MHz 32bit RISC processor
- **Operating System:** Windows CE
- **Input:** 10/100 Ethernet Controller for IP packet detection
- **Output:** USB mass storage
- **Power:** 15VDC @3A
- **Battery:** Rechargeable Lithium ion, 180Wh, 2.6 kg

### TALAN SPECIFICATIONS

- **Case Dimensions:** 10.0in x 12.9in x 2.7in
- **Weight with Battery:** 19.0 lbs (7.1kg)
- **Run-Time:** 4-6 hours of run time
- **Battery:** Removable Battery
- **Universal Power Supply:** 100-240VAC, 50-60Hz
- **Surge Filter:** 23dB
- **AGC:** Digitally Controlled Automatic Gain Control
- **Gain:** Up to 80dB total system gain
- **Audio Bandwidth:** 20Hz - 20KHz
- **Bandwidth:** 18kHz
- **Sensitivity:** 
  - Line Level Test: -100dBm
  - RF SMB Input: To 8GHz
  - Line Level Test: -80dBm
  - RF SMB Input: To 8GHz
- **Sweep Time:** 2 Seconds
- **Frequency Range:** 30kHz to 85MHz
- **Step Size:** 1kHz
- **Operational Frequency:** 225kHz & 450kHz

### TALAN MECHANICAL

- **Operational Temperature:** 0°C to +50°C
- **Size:** 63.75in x 1.5in (162cm x 3.8cm) fully extended
- **Size:** 17.5in x 1.5in (44.45cm x 3.8cm) stored
- **Weight:** 1lb (.5kg)

### TALAN ELECTRICAL

- **Audio-Video Outputs:** 12V, 0.5A (3W) (RMS)
- **Line Input:** 0pF to 42µF
- **Bias Generator:**
  - Resistance: 0 to 42 MΩ
  - AC/DC Volts: 0 to 250V Maximum
- **500msec Sample Rate**
- **Digital Multimeter:**
  - Resistance: 0 to 42 MΩ
  - AC/DC Volts: 0 to 250V Maximum
  - Frequency: 500msec Sample Rate
- **Spectrum Analyzer:**
  - Sensitivity: -65dBm
  - Bandwidth: 18kHz
  - Step Size: 1kHz
  - Sweep Time: 2 Seconds
  - Frequency Range: 30kHz to 85MHz
  - Dual Conversion, Super-Heterodyne Receiver
- **RF System:**
  - All Inputs Electrically Isolated
  - All Outputs Electrically Isolated
  - First Harmonic: 30kHz to 85MHz
- **Digital I/O:**
  - 16-bit
- **USB:**
  - USB Host (B type)
  - USB Mass Storage
  - Keyboard/Mouse
- **RF Interface:**
  - Series: 1205
  - Frequency: 225kHz & 450kHz
  - Harmonic Locator Probe
  - Frequency Range: 30kHz to 85MHz
  - Bandwidth: 18kHz
  - Step Size: 1kHz
  - Sweep Time: 2 Seconds
  - Frequency Range: 30kHz to 85MHz
  - Bandwidth: 18kHz
  - Step Size: 1kHz
  - Sweep Time: 2 Seconds
- **Expansion Port:**
  - Supports communication and control

### TALAN DIGITAL MULTIMETER

- **Input:**
  - Digital Voice Band Filter (300Hz to 3kHz)
  - Analog Voice band filter (300Hz to 3kHz)
- **Output:**
  - Current: 0 to 5A
  - Voltage: 0 to 500V
  - Frequency: 0 to 20kHz
  - Resistance: 0 to 42 MΩ
  - Capacitance: 0 to 0.1µF
- **Internal Memory:**
  - 64MB SDRAM (OS), 64MB Flash
  - Primary Computer: 64MB Flash
  - Expansion: 64MB SDRAM (OS), 64MB Flash
  - Memory Port:
    - Compact Flash Type III, 64MB SDRAM (OS), 64MB Flash
    - Internal Memory:
      - 64MB SDRAM (OS), 64MB Flash
      - Primary Computer:
        - 64MB Flash
        - Expansion:
          - 64MB SDRAM (OS), 64MB Flash
  - USB Port:
    - USB Host (B type)
    - USB Mass Storage

### TALAN DIGITAL I/O

- **Input:**
  - Modular Phone Jacks
- **Output:**
  - 16-bit

### TALAN RF ANTENNA CONNECTIONS

- **Balanced Loopstick / RF/Antenna Connection to Harmonic Locator Probe**
- **Ring, Tip, and Earth**
- **SMB RF Input:**
  - Banana Type
  - Dual MOD8:
  - Optically Isolated, Direct Digital Control:
  - High-Resolution Optical Encoder
- **Bi-Directional Input:**
  - Line NLJD
- **I/O:**
  - RJ45 Jacks
  - Banana Jacks
  - Input/Output:
    -香蕉 JACS
    - DC Power
    - USB Port for Memory/Keyboard/Mouse
  - USB:
    - Network: 10/100 Ethernet Controller for IP packet detection
    - Digital I/O:
      - 16-bit
    - USB Mass Storage
    - Keyboard/Mouse
    - Expansion Port:
      - Supports communication and control
  - Digital Voice Band Filter (300Hz to 3kHz)
  - Analog Voice band filter (300Hz to 3kHz)

### TALAN SPECIFICATIONS AND DESCRIPTIONS

- **Product specifications and descriptions subject to change without notice.**
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