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Distributed Network Analyzer



Distributed Network Analyzer

The J6801A Distributed Network Analyzer (DNA) is a high-performance ultra-flexible solution that includes one data acquisition system that supports any Local Area Network or Wide Area Network plug-in line interface module (LIM). The DNA runs its own real-time operating system. Because this analyzer is controlled via a TCP/IP/Ethernet connection, it requires a PC/Server controller to have a continuous connection between the DNA and the applications residing in the PC or server during runtime.

The main features are:

- Designed for distributed and dispatched analysis in addition to its most commonly used use model, remote distributed troubleshooting and optimization analysis.
- One acquisition system, identical to the acquisition systems included in the J6802B DNA MX and J6803A DNA PRO (detailed description below) and supporting any available Local Area Network or Wide Area Network LIM
- Controlled via TCP/IP from a standard PC or server running Signaling Analyzer Software and Network Analyzer Software
- Can be daisy-chained with other DNAs (up to 8 in a single chain)
- Agilent's Control & Sync technology allows a J6801A DNA to be time-synchronized with an adjacent, J6802B DNA MX, J6803A DNA PRO or another J6801A DNA
- Interfaces to an external GPS receiver for global time-synchronization
- NTP time-synchronization of the data acquisition system via Ethernet to the Control & Sync In port
- Can be rack mounted using the J6772A Rack Mount Kit for the Agilent Distributed Analyzer and High-Density Interfaces (2U). High-density interfaces include the J6824A Eight-Port E1/T1 LIM and the J6828A Four-Port STM-1/OC-3 LIM Multiplexer. It requires the J6810B STM-4/OC-12 LIM for use of J6828A
- Same footprint as standard laptop
- Built-in AC or optional DC power supply
- Convenient leatherette bag provided as standard, which accommodates a DNA, laptop and extra LIMs and other accessories and cables

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Acquisition System Features

The acquisition system used in this analyzer (and in other LIM based analyzers) has the following main features:

- Supports any available Local Area Network or Wide Area Network LIM
- Supports hot-swapping and interchanging of LIMs
- Provides full-rate, full duplex capture from any LIM on all supported technologies up to 1 Gb/s
- Includes 256 MB capture memory
- Provides Real-time streaming to capture media
- Provides Real-time hardware capture filters
- Provides Advanced auto-encapsulation detection (patent pending)

Note: The controller in this product (and other LIM-based analyzers) is used to control the acquisition system and to collect and process results. It is not used for real-time processing of lower-layer measurements, which is all done in the acquisition system and LIM, allowing the controller (or PC) to handle multiple tasks simultaneously with minimum impact on measurement performance. Notice that controller PC is not included in the DNA.



Distributed Network Analyzer with Controller (not included)

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