

MultiDSL A Controller Datasheet

This Datasheet describes features, specifications and ordering information relating to the MultiDSL A Controller. A complete test system consists of a MultiDSL A Controller user interface application, plus one or more types of 'node' device - DSL A (Analog), VPP (SIP) and ISDN Basic Rate and Primary

See also the following:

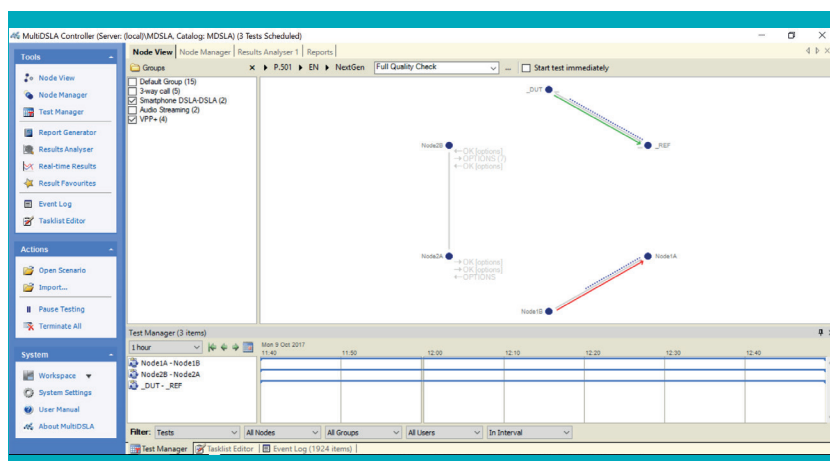
- **MultiDSL A Nodes Datasheet**, for details of all node types
- **MultiDSL A Brochure**, for a general description of the MultiDSL A system
- **Audio Streaming Integrity Brochure**, for details of this option

MultiDSL A PC minimum recommended specification:

- Pentium Duo processor or equivalent; Intel Core i5 processor or equivalent
- 2GB memory
- 1024 x 768 screen resolution
- 10M Ethernet
- 64/32 bit versions of Windows Server 2012 R2, Windows Server 2016, 7 Professional SP1, Windows 10 Pro.

System Scaling

- Nodes: 100's (depending on number of simultaneous tests required)
- MultiDSL A Controller (user Interface application): – 1-32.
- MS SQL Database: Can be configured to reside on the MultiDSL A Controller PC or on an independent server.



Reports and Data Export

Reports

Available locally through the Controller and remotely via a web browser interface. In all reports the user can select the Nodes, time interval of interest, parameters and appearance:

Summary - Histogram representation of user-selected measurements, with Pass/Fail indication

Connections - Graphical presentation of speech quality scores between node pairs, showing the Perceptual Expectation Gap

Trend - Graphical representation of user-selected measurements showing trends over time

Export

Results Export - sets of numerical and graphical results which open in another MultiDSL A system or in the free Speech Performance Viewer

Test Export - full test data which for importation into another MultiDSL A system

Text Export - to csv and txt file formats

Open in Excel - opens directly in your spreadsheet

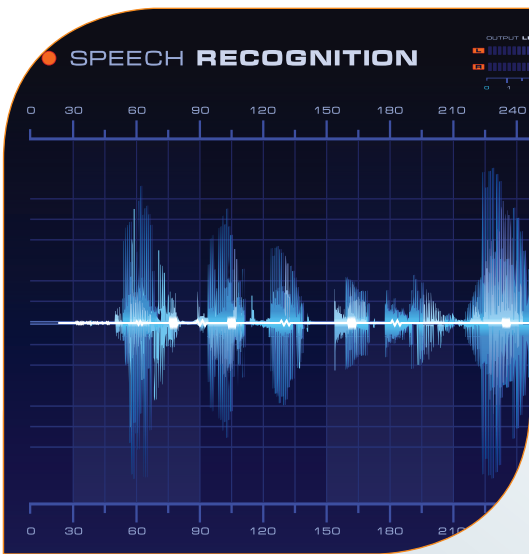
Test Control

Manual test execution

- One-shot test
- Scheduled test
- Repeat at defined intervals
- Repeat back-to-back
- Repeat indefinitely
- 'Call, test, end-call, repeat' mode
- 'Call, test, repeat, end-call' mode

Automation scripting languages supported:

- Python
- Perl
- TCL
- Transparent TCP/IP



Supported Measurement Standards

- ITU-T Rec. P.56 Mean Active Speech Level
- ITU-T Rec. P.863 POLQA
- ITU-T Rec. P.862, 862.1, 862.2 PESQ
- ITU-R BS.1387 PEAQ
- ITU-T Rec. G.107 E-Model

Pre-Defined Tests

- Connection Test – confirms the presence of a speech path between two nodes.
- Quick Quality Check – runs two speech quality tests in each direction and measures delay.
- Full Quality Check – assesses speech quality through several tests in each direction using a wide range of speech sounds and measures delay.

User-Defined Alerts

- Alert on measurement or system exception
- Create Boolean combinations

Test Call Management

Automated Call Control

- On hook, off hook, dial, ring detect for POTS services
- Smartphone Control app for Android
- TAPI/JTAPI Call control integration to soft-switches

Call Setup Analysis

- Initial Response, Post-Dial Delay, call setup recording
- SIP messaging display with analysis

Measurement Summary

Scores

- POLQA, PESQ, PEAQ with graphical analytics

Signal Levels

- Mean Active, Peak and RMS speech

Delay

- One-way and round-trip speech

Echo

- Up to three echos, level, loss, delay (analog domain)
- Simulation of echo signal and delay for echo canceller performance assessment

| Product No. | Model | Description |
|---|--------------------|--|
| MultiDSL System | | |
| User Interface & Controller Software | | |
| 000106 | MUI-ESSENTIALS-DKM | MultiDSL software essentials bundle includes PE EQ DTMF and PESQ. Dongle Key Management. |
| MultiDSL Options | | |
| 000003 | MUI-DS | Multi DSLA User Interface 5 additional devices. |
| 000007 | FP | File Processor |
| 000008 | SC | Smartphone Control |
| 000103 | SM | Speciality Metrics |
| Speech & Audio Quality Metrics - PESQ and related | | |
| 000098 | PESQBE | PESQ P.862 speech quality metric w/h British English |
| 000099 | PESQAE | PESQ P.862 speech quality metric w/h American English |
| 000101 | PAMS | PAMS speech quality metrics. Requires either PESQAE or PESQBE |
| 000102 | PSQM | PSQM Speech Quality Measure. Requires PAMS. |
| POLQA (Small Systems) | | |
| 000090 | POLQA2EC | POLQA® P.863 speech quality metric for 2 effective channels |
| 000091 | POLQA4EC | POLQA® P.863 speech quality metric for 4 effective channels |
| 000092 | POLQA6EC | POLQA® P.863 speech quality metric for 6 effective channels |
| 000093 | POLQA8EC | POLQA® P.863 speech quality metric for 8 effective channels |
| 000094 | POLQA10EC | POLQA® P.863 speech quality metric for 10 effective channels |
| 000095 | POLQA12EC | POLQA® P.863 speech quality metric for 12 effective channels |
| POLQA (Large Systems) | | |
| 000096 | POLQA14EC | POLQA® P.863 base license for large systems (14EC). |
| 000097 | POLQA14EC-2EC | POLQA® P.863 add'l 120 minutes (eq. 2EC) of speech processing. Requires POLQA14EC. |
| Audio Metrics | | |
| 000100 | PEAQ | PEAQ Audio Quality metrics. Requires DSLA1IC 48k |
| 000107 | ASI | Audio Streaming Integrity Metric |

