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DSLA3: Build your own system

DSLA3 is the new hardware for analog testing driven by MultiDSLA platform.

This device is a 6-slot modular system that allows users to flexibly define which interfaces to use. Build your own test system specifically according to your needs.

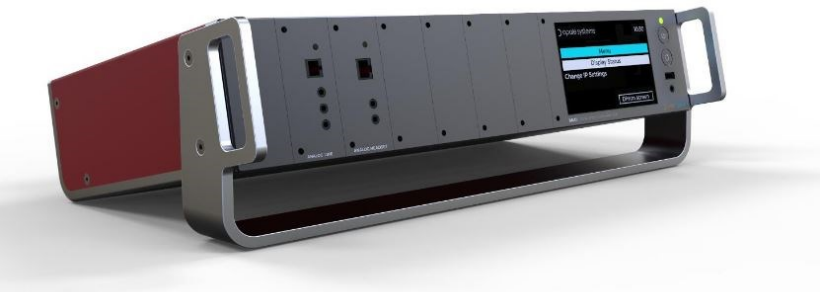
The modular conception allows a wide choice of connections such as PSTN lines, phone handsets, legacy adapters used with DSLA2c for Bluetooth, PTT, and any kind of mobile devices. DSLA3 also accepts legacy GPS modules.

DSLA3 embeds a Wi-Fi 5 module to either connect to your network or create an access point to relay the Smartphone control command to the tested Smartphones.

DSLA3 includes a touchscreen to configure its IP and MultiDSLA IP/hostname to reach.

The management connection is an upstream flow toward MultiDSLA application, giving the possibility of deploying the DSLA3 on remote sites without the need of firewall or port forwarding implementation and allowing the MultiDSLA application to be placed in the cloud.

Ref.	Model	Description	Availability
000165	DSLA3	DSLA3 Chassis	Q3 2022
000166	DSLA3-MO-AL	RJ11 PSTN FXO Analog Line Module	Q3 2022
000167	DSLA3-MO-AH	RJ22 Analog Handset Module	Q3 2022
000168	DSLA3-MO-BP	Balanced Port Module for HATS	H1 2023
000169	DSLA3-MO-BT	Bluetooth Module	H2 2023
000170	DSLA3-MO-DH	Digital Handset Module	H2 2023
000171	DSLA3-SMALL	DSLA3 Small Form Factor	H1 2024



Technical specifications

Signal Generation

- Signal sampling rate up to 96 kHz for future standards
- Any user-supplied speech material in WAV or PCM format, generated with user-defined mean active speech level with setting range -99dBm to +10dBm
- Sine wave, including swept and noise 20Hz to 22kHz, setting range -99dBm to +10dBm, any duration
- DTMF setting range -99dBm to +10dBm, any duration
- DTMF user-defined twist, frequency offset and break duration
- Conversational speech with/without double-talk
- Two independent tracks on each DSLA channel to create Complex mixed signals, e.g. speech plus noise

Measurements

- Linearity 0.1dB for levels -60 to +10 dBm
- Linearity 0.1dB for frequencies 20Hz to 22 kHz
- Noise floor -85dBm or better
- Range of measured levels -75dBm to +19dBm
- Minimum measurable mean active speech level -65dBm

DSLA3 chassis

Dimensions: 89Hx244Wx440D (2U)
Net weight: 5Kg
Power: 100-220 V AC
Operating Temperature: -2 to 40 °C
Approval and compliance: ongoing
Calibration: every 3 years for analog modules

Line module

- 2 wires RJ11 FXO interface
- Control and sync 3.5 mm female jack
- Phone line ports 600 Ω or complex impedance
- Output level limited to +6dB
- DTMF or Pulse dialing

Handset module

- 4 wires RJ22 interface
- Control and sync 3.5 mm female jack
- Smartphone 3.5 mm female jack
- Floating inputs (10 kΩ) and outputs (25 Ω)
- Output level attenuated by 28dB