

EMC Testing Summary for the Dante AVIO Adapter Modules

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1. Overview

EMC testing has been performed on the Dante modules incorporated in the following Dante AVIO adapters:

- 2-channel analog input (ADP-DAI-AU-2X0)
- 2-channel analog output (ADP-DAO-AU-0X2)
- 2x2-channel AES3 (ADP-AES3-AU-2X2)
- 2x2-channel USB (ADP-USB-AU-2X2)
- 2-channel install input (AVIO-A-2IN-EB)^
- 2-channel install output (AVIO-A-2OUT-EB)^
- 4-channel install input (AVIO-A-4IN-EB)^
- 4-channel install output (AVIO-A-4OUT-EB)^
- 2x2 IO install (AVIO-A-2IN2OUT-EB)^

The following single-channel modules inherit their test result status from the respective dual-channel variants:

- 1-channel analog input (ADP-DAI-AU-1X0)
- 1-channel analog output (ADP-DAO-AU-0X1)

The EMC testing was performed by EMC Services Pty Ltd in Frenchs Forest, NSW Australia and ^Bureau Veritas Consumer Product Services (H.K.) Ltd., Taoyuan Branch in New Taipei City, Taiwan.

2. Included Tests

The modules were tested for emissions and immunity compliance against the following standards:

- 2-channel analog input (ADP-DAI-AU-2X0)*:
 - Europe EN 55032:2012/AC:2013 (Class B) and EN 55024:2010
 - Australia AS/NZS CISPR 32:2015
 - North America FCC 47 CFR Part 15 (B) Class B
- 2-channel analog output (ADP-DAO-AU-0X2)*:
 - Europe EN 55022:2010 +AC: 2011 (Class B) and EN 55024:2010
 - Australia AS/NZS CISPR 22:2009 + A1 (2010)
 - North America FCC 47 CFR Part 15 (B) Class B
- 2x2-channel AES3 (ADP-AES3-AU-2X2) :
 - Europe EN 55032:2012/AC:2013 (Class B) and EN 55024:2010
 - Australia AS/NZS CISPR 32:2015
 - North America FCC 47 CFR Part 15 (B) Class B

- 2x2-channel USB (ADP-USB-AU-2X2) :
 - Europe EN 55032:2015 (Class B) and EN 55024:2015
 - Australia AS/NZS CISPR 32:2015
 - North America FCC 47 CFR Part 15 (B) Class B & ISSED ICES-003 Issue 6
- 2-channel install input (AVIO-A-2IN-EB):
 - Europe EN / BS EN 55032: 2015+A11:2020, Class B** and EN / BS EN 55035: 2017+A11:2020
 - North America FCC 47 CFR Part 15 (B) Class B, ANSI C63.4-2014 and ANSI C63.4a-2017
- 2-channel install output (AVIO-A-2OUT-EB) :
 - Europe EN / BS EN 55032: 2015+A11:2020, Class B** and EN / BS EN 55035: 2017+A11:2020
 - North America FCC 47 CFR Part 15 (B) Class B, ANSI C63.4-2014 and ANSI C63.4a-2017
- 4-channel install input (AVIO-A-4IN-EB) :
 - Europe EN / BS EN 55032: 2015+A11:2020, Class B** and EN / BS EN 55035: 2017+A11:2020
 - North America FCC 47 CFR Part 15 (B) Class B, ANSI C63.4-2014 and ANSI C63.4a-2017
- 4-channel install output (AVIO-A-4OUT-EB) :
 - Europe EN / BS EN 55032: 2015+A11:2020, Class B** and EN / BS EN 55035: 2017+A11:2020
 - North America FCC 47 CFR Part 15 (B) Class B, ANSI C63.4-2014 and ANSI C63.4a-2017
- 2x2 IO install (AVIO-A-2IN2OUT-EB) :
 - Europe EN / BS EN 55032: 2015+A11:2020, Class B** and EN / BS EN 55035: 2017+A11:2020
 - North America FCC 47 CFR Part 15 (B) Class B, ANSI C63.4-2014 and ANSI C63.4a-2017

* Due to their close physical and electrical similarity with existing fully-tested models, model variants with serial numbers DAO2-A4-[XXXXXX], DAO2-A2-[XXXXXX], DA12-A4-[XXXXXX], and DA12-A2-[XXXXXX] were tested for emissions against the AS/NZS CISPR 32:2015 standard only.

** This standard was used to attest compliance to Radiocommunications Equipment (General) Rules 2021 and Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2017 regulated by Australian Communications and Media Authority (ACMA).

2.1. Emissions Tests

The following emissions tests were performed:

Conducted emissions

- 0.15-30 MHz

Radiated emissions

- 30-1000 MHz
- 1 – 6 GHz

2.2. Immunity Tests

The following immunity tests were performed:

- Electrostatic discharge (ESD)
- RF radiated susceptibility
- Fast transients (EFT), burst
- Surges
- RF conducted susceptibility
- Magnetic field immunity
- Voltage dips
- Voltage interruptions
- Radio Frequency Electromagnetic Field (RS)
- Radio Frequency Common Mode (CS)
- Power Frequency Magnetic Field (PFMF)

3. Test Results

All modules were found to be fully compliant with the above listed standards.