

APEX DAC



SPECIFICATIONS

| | | | |
|-------------------------|--|---------------------------|--|
| Finish | Silver or Black Anodised Aluminium | MQA | Full decoding and rendering of MQA data from the Network and USB2 inputs. Final rendering of unfolded MQA data only from the other inputs |
| Type | Upsampling Network DAC | Residual Noise | 24-bit data: Better than -113dB0, 20Hz - 20kHz unweighted (6V output setting) |
| Dimensions | 444mm x 430mm x 115mm 17.5" x 17.0" x 4.6" Allow extra depth for cable connectors | L R Crosstalk | Better than -115dB0, 20Hz - 20kHz |
| Weight | 16kg / 35.3lbs | Spurious Responses | Better than -105dB0, 20Hz - 20kHz |
| Converter Type | dCS proprietary Ring DAC™ topology | Filters | PCM mode: up to 6 filters give different trade-offs between the Nyquist image rejection and the phase response. DSD mode: 4 filters progressively reduce out-of-audio band noise level, plus Filter 5 which has an improved transient response |
| Digital Inputs | <ul style="list-style-type: none"> Ethernet network port on RJ45 connector, accepts 24-bit 44.1 - 384kS/s PCM, DSD/64 & DSD128 in DFF/DSF format USB 2.0 interface on B-type connector, accepts 24-bit 44.1 - 384kS/s PCM, DSD/64 & DSD128 in DoP format USB On-The-Go interface on A-type connector, accepts 24-bit 44.1 - 384kS/s PCM, DSD/64 & DSD128 in DFF/DSF format 2x AES/EBU inputs on 3-pin female XLR connectors, accepts 24-bit 44.1 - 192kS/s PCM, DSD/64 & DSD/128 in DoP format 1x Dual AES pair, accepts 24-bit 88.2 - 384kS/s PCM, DSD/64 & DSD/128 in DoP format 1x SPDIF on RCA Phono connector, accepts 24-bit 44.1 - 192kS/s PCM & DSD/64 in DoP format 1x SPDIF on BNC connector, accepts 24-bit 44.1 - 192kS/s PCM & DSD/64 in DoP format 1x SPDIF optical on TOSLINK connector, accepts 24-bit 44.1 - 96kS/s PCM | Conversions | User selectable PCM upsampling to DXD, DSD or DSDx2 |
| Analogue Outputs | <ul style="list-style-type: none"> 1x pair balanced outputs on 2x XLR connectors. Output levels: 0.2V, 0.6V, 2V, 6V rms for a full-scale input, set in the menu. Output impedance: 3Ω. Maximum load: 600Ω (10k-100kΩ is recommended) 1x pair unbalanced outputs on 2x RCA connectors. Output levels: 0.2V, 0.6V, 2V, 6V rms for a full-scale input, set in the menu. Output impedance: 52Ω. Maximum load: 600Ω (10k-100kΩ is recommended) | Software Updates | Download and update functionality available via dCS Mosaic Control app |
| Worldclock I/O | <ul style="list-style-type: none"> 2x Word Clock Inputs on 2x BNC connectors, accept standard Word Clock at 44.1, 48, 88.2, 96, 176.4 or 192kHz. The data rate can be the same as the clock rate or an exact multiple of the clock rate. Sensitive to TTL levels 1x Word Clock Output on 1x BNC connector. With Sync Mode set to Master, a TTL-compatible Word Clock is output | Local Control | dCS Mosaic Control app for unit configuration and playback. RS232 interface (controlled by a 3rd party automation system). dCS Universal Remote is available as an optional extra |
| | | Power Supply | Factory set to either 100, 115/120, 220 or 230/240V AC 50/60Hz |
| | | Power Consumption | 25 Watts typical / 50 Watts maximum |

APEX DAC With Headphone Amplifier



SPECIFICATIONS

| | | | |
|--------------------------|--|---------------------------|--|
| Finish | Silver or Black Anodised Aluminium | Worldclock I/O | 2x Word Clock Inputs on 2x BNC connectors, accept standard Word Clock at 44.1, 48, 88.2, 96, 176.4 or 192kHz. The data rate can be the same as the clock rate or an exact multiple of the clock rate. Sensitive to TTL levels. 1x Word Clock Output on 1x BNC connector. With Sync Mode set to Master, a TTL-compatible Word Clock is output |
| Type | Upsampling Network DAC with Headphone Amplifier | MQA | Full decoding and rendering of MQA data from the Network and USB2 inputs. Final rendering of unfolded MQA data only from the other inputs |
| Dimensions | 444mm x 430mm x 115mm 17.5" x 17.0" x 4.6" Allow extra depth for cable connectors | Residual Noise | 24-bit data: Better than -113dB0, 20Hz - 20kHz unweighted (6V output setting) |
| Weight | 16.7kg / 36.8lbs | L R Crosstalk | Better than -115dB0, 20Hz - 20kHz |
| Converter Type | dCS proprietary Ring DAC™ topology | Spurious Responses | Better than -105dB0, 20Hz - 20kHz |
| Digital Inputs | <ul style="list-style-type: none"> Ethernet network port on RJ45 connector, accepts 24-bit 44.1 - 384kS/s PCM, DSD/64 & DSD128 in DFF/DSF format USB 2.0 interface on B-type connector, accepts 24-bit 44.1 - 384kS/s PCM, DSD/64 & DSD128 in DoP format USB On-The-Go interface on A-type connector, accepts 24-bit 44.1 - 384kS/s PCM, DSD/64 & DSD128 in DFF/DSF format 2x AES/EBU inputs on 3-pin female XLR connectors, accepts 24-bit 44.1 - 192kS/s PCM, DSD/64 & DSD/128 in DoP format 1x Dual AES pair, accepts 24-bit 88.2 - 384kS/s PCM, DSD/64 & DSD/128 in DoP format 1x SPDIF on RCA Phono connector, accepts 24-bit 44.1 - 192kS/s PCM & DSD/64 in DoP format 1x SPDIF on BNC connector, accepts 24-bit 44.1 - 192kS/s PCM & DSD/64 in DoP format 1x SPDIF optical on TOSLINK connector, accepts 24-bit 44.1 - 96kS/s PCM | Filters | PCM mode: up to 6 filters give different trade-offs between the Nyquist image rejection and the phase response. DSD mode: 4 filters progressively reduce out-of-audio band noise level, plus Filter 5 which has an improved transient response |
| Analogue Outputs | <ul style="list-style-type: none"> 1x pair balanced outputs on 2x XLR connectors. Output levels: 0.2V, 0.6V, 2V, 6V rms for a full-scale input, set in the menu. Output impedance: 3Ω. Maximum load: 600Ω (10k-100kΩ is recommended) 1x pair unbalanced outputs on 2x RCA connectors. Output levels: 0.2V, 0.6V, 2V, 6V rms for a full-scale input, set in the menu. Output impedance: 52Ω. Maximum load: 600Ω (10k-100kΩ is recommended) | Conversions | User selectable PCM upsampling to DXD, DSD or DSDx2 |
| Headphone Outputs | 1x stereo balanced output 4-pin male XLR connector; 1x stereo unbalanced output on 6.35mm (1/4") 3-pole jack. Full-scale output levels: 1.4W rms into 33Ω, 0.15W rms into 300Ω. Minimum headphone impedance: 33Ω | Software Updates | Download and update functionality available via dCS Mosaic Control app |
| | | Local Control | dCS Mosaic Control app for unit configuration and playback. RS232 interface (controlled by a 3rd party automation system). dCS Universal Remote is available as an optional extra |
| | | Power Supply | Factory set to either 100, 115/120, 220 or 230/240V AC 50/60Hz |
| | | Power Consumption | 30 Watts typical / 50 Watts maximum |