

## Cobalt ARIA 9934-AUD-PRO and BBG-1034-AUD-PRO

You can update your card by downloading the new Update software by going to the Support>Firmware link at [www.cobaltdigital.com](http://www.cobaltdigital.com).

Download “Firmware Update Guide”, which provides simple instructions for downloading the latest firmware for your card onto your computer, and then downloading it to your card through DashBoard™.

Software updates are field-installed without any need to remove the card from its frame.

The table below lists released software versions and describes the corresponding functions additions, improvements, or corrections.

Firmware Version	Description
Rev 2.159 (5/15/2025 – present) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Bug Fixes:</b> <ul style="list-style-type: none"><li>Resolves intermittent disconnect when using +TTS option</li></ul>
Rev 2.151 (4/15/2025 – 5/15/2025) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Additions/Improvements:</b> <ul style="list-style-type: none"><li>Adds diagnostics for +SCTE104-FAST insertion</li></ul> <b>Bug Fixes:</b> <ul style="list-style-type: none"><li>Resolves potential memory leak issue with +TTS option</li></ul>
Rev 2.148 (10/15/2024 – 4/15/2025) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Bug Fixes:</b> <ul style="list-style-type: none"><li>Corrects issue with +TTS option playout.</li></ul>
Rev 2.141 (4/23/2023 – 10/15/2024) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Bug Fixes:</b> <ul style="list-style-type: none"><li>Corrects issue with CVBS input where automatic gain control on the incoming analog signal could not function in some cases.</li></ul>
Rev 2.111 (7/26/2021 – 4/23/2023) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Additions/Improvements:</b> <ul style="list-style-type: none"><li>Audio DSP core reports excess core subscriptions so the Core Status DashBoard display turns red and displays “Core x oversubscribed.” Note: DSP firmware v2.1 must be loaded along with card firmware to enable this function.</li></ul>

Firmware Version	Description
<p>Rev 2.098 (10/20/2020 – 7/26/2021) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models</p>	<p><b>Additions/Improvements:</b></p> <ul style="list-style-type: none"> <li>Control of HDR flags in ST352 VPID (OETF and colorimetry) in SDI output video.</li> <li>UDP Raw ANC data insertion mode.</li> <li>DSP Auto Adjust Delay feature provides an alert if additional video delay is needed to restore lip sync for program video using card DSP functions (such as RTLL and/or Dolby encoding).</li> <li>SD card allows recovery to most recently installed firmware, licensing, and saved presets.</li> <li>Option +QC has failover choice to stay on failover input if primary input returns, preventing bouncing between two input choices when primary input is unreliable.</li> <li>Bootloader Revision field in card Product Info tab shows revision or if card requires bootloader update.</li> </ul> <p><b>Bug Fixes:</b></p> <ul style="list-style-type: none"> <li>Closed captioning status when CC source is analog input bridge mode to SDI.</li> <li>Corrects per-channel audio delay choices for audio bus channels 5 thru 16.</li> <li>Correct parity in two UDWs of ATC timecode packets.</li> </ul>
<p>Rev 2.083 (5/10/2019 – 10/20/2020) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models</p>	<p><b>Bug Fixes:</b></p> <ul style="list-style-type: none"> <li>(BBG-1000 variants only) Front-panel buttons operate correctly.</li> <li>Preset performs large-scale manipulations (such as Delete All Presets) stably and consistently while accessing presets in DashBoard™ remote control or the Web UI. Note: The website provides DSP download. Loading is only needed if the version 2.0 has not been previously loaded. No new version is available since DSP version 2.0.</li> </ul>
<p>Rev 2.079 (1/17/2019 – 5/10/2019) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models</p>	<p><b>Additions/Improvements:</b></p> <ul style="list-style-type: none"> <li>Parameter Blast checkbox (located on the Admin &gt; System tab) enables card/device to appear and populate in DashBoard more quickly (relevant for high-latency connections). Since the frame network card is the arbiter of frame/card communications, Parameter Blast may not operate in some cases.</li> </ul> <p><b>Bug Fixes:</b></p> <ul style="list-style-type: none"> <li>DashBoard recognizes a model without an error warning during firmware upgrades.</li> </ul>

Firmware Version	Description
Rev 2.078 (12/19/2018 – 1/17/2019) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Additions/Improvements:</b> <ul style="list-style-type: none"> <li>All presets may be deleted from a card.</li> <li>EAS crawl length increased from 256 to 2048 characters.</li> <li>Per-channel audio delay increased from 800ms to 1500ms.</li> <li>WebUI has less page loading time, all controls and status parameters display, and user-selectable page color/background schemes persist across power cycling and reboot.</li> <li>Logo Insertion tabs display each graphic name. The name of each graphic is displays in the Event Setup tab under the Event Action column. This functionality requires uploading graphic files into bin files using the latest posted web conversion tool at <a href="http://a.cdi-eng.com:55080/cgi-bin/image_upload.py">http://a.cdi-eng.com:55080/cgi-bin/image_upload.py</a>.</li> <li>Compatibility sustained so older graphics bin files work with new firmware and new BIN files with the name encoded work with older firmware.</li> </ul>
Rev 2.037 (5/11/2018 – 12/19/2018) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Additions/Improvements:</b> <ul style="list-style-type: none"> <li>DSP Usage (“fuel gauge”) indicates use percentage for DSP cores, helping prevent over-allocation.</li> <li>Reduction in openGear frame traffic for reporting card parameter updates.</li> <li>Changes device name to current “...-AUD-PRO-DSP”.</li> <li>DSP Dolby Decode adds Auto-Detect Else Mute and Auto-Detect Else Pass PCM modes</li> </ul> <b>Bug Fixes:</b> <ul style="list-style-type: none"> <li>Correct calibration of DashBoard audio level meters (bars). Full red = 0dBFS; Red/yel point = -10 dBFS; Yel/green point = -20 dBFS.            Note: This release consists of the card basic upgrade .bin file 9934-AUD-PRO-DSP_rev_2.037.bin file and the Audio DSP upgrade file DSP_Upgrade_rev_2.0.bin file. Both files need to be uploaded to the device for full upgrade.</li> </ul>
Rev 2.014 (8/14/2017 – 5/11/2018) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Bug Fixes:</b> <ul style="list-style-type: none"> <li>Corrects case where device is not licensed with Frame Sync option +FS, device would repeatedly toggle lock mode parameter. This had no effect on signal processing but resulted in nuisance “Autosave Pending” card state messages and unnecessarily performed writes to the device log file.</li> </ul>
Rev 2.011 (6/23/2017 – 8/14/2017) All 9934-AUD-PRO models All BBG-1034-AUD-PRO models	<b>Initial Release</b>