

You can update your card by downloading the new Update software by going to the **Support>Firmware** link at www.cobaltdigital.com.

**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 and/or corrections.

Software Version (Date)	Description
Rev 2.098 (10/20/2020 – present) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Corrections:</b></p> <ul style="list-style-type: none"> <li>• Closed captioning status when CC source is analog input bridge mode to SDI.</li> <li>• Fixes incorrect per-channel audio delay choices for audio bus channels 5 thru 16.</li> <li>• Fixes parity error in two UDWs of ATC timecode packets.</li> </ul> <p><b>Additions/Improvements:</b></p> <ul style="list-style-type: none"> <li>• Adds controls to explicitly set HRD flags in apply ST352 VPID (OETF and colorimetry) in SDI output video.</li> <li>• Adds UDP Raw ANC data insertion mode.</li> <li>• SD card recovery process improved and allows recovery to most recently installed firmware, licensing, and saved presets.</li> <li>• Where video quality event screening is present (option +QC), adds failover choice to stay on failover input choice even if primary input “comes back”, thereby preventing bouncing between two input choices if primary input is unreliable.</li> <li>• Adds Bootloader Revision field in card Product Info tab. Shows revision or if card requires bootloader update.</li> </ul>
Rev 2.081 (3/12/2019 – 10/20/2020) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Corrections:</b></p> <ul style="list-style-type: none"> <li>• (BBG-1000 variants only) Fixes rare cases where certain front-panel button presses could result in unit front-panel control lock-up.</li> <li>• Improves presets performance where large-scale manipulations could occur (such as Delete All Presets). Also provides enhanced stability and conformity when accessing presets from both DashBoard™ remote control and the built-in web browser UI.</li> </ul>
Rev 2.080 (3/12/2019 – 3/12/2019) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>• Adds Parameter Blast checkbox (located on the Admin &gt; System tab). When enabled, Parameter Blast can reduce the time it takes for a card/device to appear and populate in DashBoard (this is especially relevant where high-latency connections are present). This is facilitated by reducing some handshakes on initial DashBoard setup where control settings are static (not being manipulated) while the card is first appearing. (Note that the frame network card is the arbiter of all frame/card communications and in some cases may not accept full extent of parameter blast under some conditions.)</li> </ul>
2.077 (12/10/2018 – 1/17/2019) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>• Adds new preset functionality including new controls for deleting all presets on a card and managing how preset uploads get processed.</li> <li>• Extends max EAS crawl length from 256 to 2048 characters.</li> <li>• Increases per-channel audio delay from 800ms to 1500ms.</li> <li>• WebUI improvements.</li> <li>• Trouble Slate and Logo Insertion tabs now display the name of each graphic. The name of each graphic is also displayed 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>) Full compatibility is maintained meaning older graphics bin files will work with new firmware and new graphics BIN files with the name encoded will work with older firmware versions.</li> </ul>
2.052 (7/3/2018 – present) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>• Various stability improvements.</li> <li>• New WebUI which exposes all user controls</li> <li>• Improvement allows multiple SCTE104 insertions on same frame</li> <li>• Reduction in openGear frame traffic for reporting card parameter updates.</li> </ul> <p><b>Corrections:</b></p> <ul style="list-style-type: none"> <li>• Corrects mis-calibration of DashBoard audio level meters (bars). Full red = 0dBFS; Red/yel point = -10 dBFS; Yel/green point = -20 dBFS.</li> </ul>

– Continued on next page –

Software Version (Date)	Description
2.031 (1/4/2018 – 7/3/2018) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Additions:</b></p> <ul style="list-style-type: none"> <li>Adds audio output flex mixing, including output downmixers as flex mix sources.</li> <li>Allows user-selectable ST352 VPID insertion as regenerated (default mode) or pass-thru mode where ST352 VPID is passed untouched.</li> <li>(Option +TTS) Adds support for additional non-English language options.</li> </ul> <p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>Various stability improvements.</li> </ul> <p><b>Corrections:</b></p> <ul style="list-style-type: none"> <li>Addresses issue where non-PCM audio can spontaneously mute on outputs in rare cases of rapid input interruption/resumption.</li> <li>(Option +SCTE104) Corrects UI typo in the log on +SCTE104 insertion page.</li> <li>Corrects case where 23.98 frame formats would always be accepted regardless of how the input video filtering controls were set.</li> </ul>
1.251 (5/11/2017 – 1/4/2018) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Corrections:</b></p> <ul style="list-style-type: none"> <li>Addresses a production compatibility issue.</li> <li>Fixes nuisance “modified” card state message when no changes were actually made.</li> <li>Fixes cases where card may not show in DashBoard when enabling Event-Based Loading</li> </ul>
1.235 (11/29/2016 – 5/11/2017) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Additions:</b></p> <ul style="list-style-type: none"> <li>Adds <b>Alarms</b> DashBoard tab, which allows input video error conditions (missing, frozen, or black) to be propagated as a card general Warning (yellow) or Error (red) alarm. Maintains a log in DashBoard of all logged alarm activity, which can also be downloaded as Alarm.txt files. A Syslog IP function allows alarm propagation directly over IP (card must be fitted with Rear Module having a dedicated IP port or frame capable of per-card dedicated IP communications).</li> </ul>
1.235 (cont.) (11/29/2016 – 5/11/2017) All 9932-EMDE / BBG-1032-EMDE models	<ul style="list-style-type: none"> <li>Adds video input raster size/frame rate filtering which allows rejecting formats as being considered invalid inputs which do not meet user-set parameters (for example, filtering set for 720p 5994 only will reject and consider as Disabled by User any raster size/frame rate not meeting this criteria).</li> </ul>
1.232 (11/10/2016 – 11/29/2016) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>Adds explicit controls to use frame network card or direct network connection for NTP source</li> <li>(Option +TTS only) Creates SSH public keys directory. This is to assist using public key SSH auth for +TTS using SCP to copy playlist files to card.</li> <li>(Option +SCTE104-FAST only) Improvements to accuracy of +SCTE104-FAST insertion for out-of-time-order messages.</li> </ul>
1.231 (10/13/2016 – 11/10/2016) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Corrections:</b></p> <ul style="list-style-type: none"> <li>Fixes cases where GPI level-based triggering was used in conjunction with event actions, changes of level state may not always have been detected (resulting in the combined triggering not being executed).</li> <li>(Option +SCTE104-FAST only) Fixes cases where a “0” would be inserted at the start of a UPID string in a SCTE104 <i>insert_segmentation_descriptor</i> operation, resulting in the last character of the UPID being dropped.</li> </ul> <p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>(Option SCTE104-FAST only) SCTE104 messages inserted via +SCTE104-FAST with an expired UTC timestamp are now immediately inserted (previously rejected since the insertion time was expired).</li> </ul>
1.226 (9/7/2016 – 10/13/2016) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Additions:</b></p> <ul style="list-style-type: none"> <li>Adds support for multicast IP de/insertion with IGMPv3 support and source filtering.</li> <li>IP de/insertion using data-over-audio maintains IP packet structure.</li> <li>IP de/insertion using data-over-audio capable of continuously de/inserting multiple packets per frame.</li> <li>Adds general purpose “Event Timers” that can be used in conjunction with event-based actions.</li> <li>(option +SCTE104) Adds support for SCTE104 messages as triggers for event actions.</li> <li>(option +LOGO) +LOGO option can now be enabled/disabled using event actions.</li> <li>Adds support for option +EAS.</li> </ul>
1.193 (3/23/2016 – 5/16/2016) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Additions:</b></p> <ul style="list-style-type: none"> <li>Adds Silence selection as a source choice for input audio channel selections.</li> </ul>
1.191 (3/17/2016 – 3/23/2016) All 9932-EMDE / BBG-1032-EMDE models	<p><b>Additions:</b></p> <ul style="list-style-type: none"> <li>Adds SNMP support; adds button for SNMP MIB file download.</li> <li>Adds button to clear SDI error count/OK time.</li> <li>Adds silence as an output audio routing source.</li> <li>(Option +T-SLATE) Allows support of option +T-SLATE. Option provides graphic file upload and manual/quality-event invoke of trouble slate raster insertions.</li> <li>(Option +LOGO) Allows support of option +LOGO. Option provides graphic file upload and user-controlled insertion of logo “bug” onto active video.</li> </ul>