



# ControlLogix High Speed Counter Module Firmware Revision 1.6

Catalog Number 1756-HSC

These release notes correspond to ControlLogix High Speed Counter Module firmware revision 1.6. These release notes also include information for the previous revision 1.5 firmware release.

## Corrected Anomaly Revision 1.6

Firmware revision 1.6 corrects this anomaly:

Anomaly:	Description:
1756-HSC Coordinated System Time (CST) Timestamp Prone to Rollover Error	<p>The 1756-HSC CST timestamp is prone to a rollover error from the lower 16 bits of the timestamp value. Instead of advancing by the typical 10,000 microseconds per sample, consecutive CST timestamps appear to revert back in time by approximately 55,536 microseconds (16 bit rollover minus the 10,000 microsecond sample time). You can monitor this by comparing the input CST Timestamp tag to its last value and determining if the value is ever negative.</p> <p>Firmware revision 1.6 corrects the CST timestamp. If you do not use the CST timestamp, you do not need to update the firmware.</p>

## Corrected Anomalies Revision 1.5

Firmware revision 1.5 corrected these anomalies:

Anomaly:	Description:
1756-HSC Coordinated System Time Differed from the Master Coordinated System Time	The Coordinated System Time (CST) specifies a synchronized time value for all modules in a ControlLogix chassis. Previously, when the CST was initialized in the 1756-HSC module, it was done incorrectly, causing the module's CST value to differ from the CST time master. With firmware revision 1.5, the 1756-HSC uses the correct CST value.
Dynamic Reconfiguration Previously Unavailable for 1756-HSC Module	<p>During normal operation, you could not reconfigure the 1756-HSC module while the module's RSLogix 5000 project was online. You could only reconfigure the module after the RSLogix 5000 project was changed and one of the following events occurred:</p> <ul style="list-style-type: none"> <li>• The module was reset.</li> <li>• The module was removed and reinserted under power.</li> <li>• The control system was powered down and powered up again.</li> </ul>
	<p><b>IMPORTANT</b> Firmware revision 1.5 enables the 1756-HSC to perform dynamic reconfiguration. However, in addition to the module's firmware, RSLogix 5000 must also make dynamic reconfiguration available.</p> <p>You must use RSLogix 5000, version 14 and greater, to use dynamic reconfiguration with the 1756-HSC module.</p>

## Upgrade the Module Firmware

The 1756-HSC module ships with working firmware. If you need to upgrade firmware, you can download it from:

<http://support.rockwellautomation.com>

**[www.rockwellautomation.com](http://www.rockwellautomation.com)**

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