



ControlLogix Data Highway Plus-Remote I/O Communication Interface Module

Catalog Number 1756-DHRIO

When to Use These Release Notes

Use these release notes with the 1756-DHRIO module, Series C, firmware major revision 5, minor revision 4.

The corrected anomalies for the Series C module are listed on page 2. There are no enhancements, changes or restrictions on this revision of the module.

For more information on the 1756-DHRIO module, see the ControlLogix Data Highway Plus-Remote I/O Communication Interface Module user manual, publication 1756-UM514.

Before You Update Your Module

Before you update your module, we recommend you consider the following software upgrades. In most cases, no software upgrade is required when using this revision of the 1756-DHRIO module. However, there are situations when software upgrades are necessary.

Table 1

With this software	You must upgrade if
RSLogix 5000	Your application requires Exact keying (for RIO). In this case, you must upgrade RSLogix 5000 to version 11.0 or greater. Keep in mind that it is not necessary to place the DHRIO icon under the I/O configuration tree in RSLogix 5000 for DH+ only applications.
RSLinx	Your application requires you to create a routing table in the updated 1756-DHRIO module (firmware revision 5.x). In this case, you must upgrade RSLinx to version 2.31.xx. A "patch" may also be available for some previous versions of RSLinx, contact Technical Support at 440.646.5800 for more information.

Corrected Anomalies

The corrected anomalies for the 1756-DHRIO module are listed below.

Table 2

Anomaly	Corrected in this firmware revision	Description
Module Faulted When Sending DH+ Messages to Link IDs with Maximum Length Paths	5.4	<p>If you tried to send a DH+ message to a link ID via the DH+ routing table, and the route for that link ID was the maximum size of 32 bytes, memory corruption occurred. This caused the channel to eventually fault or stop responding.</p> <p>Occasionally, the channel that ceased functioning did so without a corresponding error code being displayed on the module's alphanumeric status indicator display.</p>
Module Did Not Recover From Power Sag	5.3	<p>Previous versions of the 1756-DHRIO module would not recover when backplane power sagged.</p>
Module Did Not Effectively Prevent Users from Using Incorrect Firmware	5.3	<p>Previous versions of the 1756-DHRIO module did not reliably disallow users from flashing the module to firmware revision 2.x. On Series C modules, firmware revision 2.x is an unacceptable configuration.</p> <p>With the corrected firmware, the following applies:</p> <ul style="list-style-type: none"> • If you have a Series C module, you can flash upgrade your module to firmware revision 4.01 and greater. • If you have a Series B module, you can flash upgrade your module to firmware revision 2.14 and greater.

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