



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**Notification# 20200326003  
Datasheet for ISO7730-Q1, ISO7731-Q1  
Information Only**

**Date:** April 15, 2020  
**To:** Newark/Farnell PCN

Dear Customer:

This is an information-only announcement of a change to the datasheet for a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

Change Management Team  
SC Business Services


## Information Only Attachments

### Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
ISO7730FQDWQ1	null
ISO7730QDWQ1	null
ISO7731FQDWRQ1	null
ISO7731QDWRQ1	null

Technical details of this Product Change follow on the next page(s).

<b>Notification Number:</b>	20200326003	<b>Notification Date:</b>	April 15, 2020
<b>Title:</b>	Datasheet for ISO7730-Q1, ISO7731-Q1		
<b>Customer Contact:</b>	<a href="#">Notification Manager</a>	<b>Dept:</b>	Quality Services
<b>Notification Details</b>			
<b>Description of Change:</b>			
<p>Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.</p> <div>  <div> <b>ISO7730-Q1, ISO7731-Q1</b>  <small>SLLSEU3C –NOVEMBER 2016–REVISED MARCH 2020</small> </div> </div>			
<b>Changes from Revision B (September 2018) to Revision C</b>			<b>Page</b>
<ul style="list-style-type: none"> <li>Made editorial and cosmetic changes throughout the document ..... 1</li> <li>Changed From: "Isolation Barrier Life: &gt;40 Years" To: "&gt;100-year projected lifetime at 1500 V<sub>RMS</sub> working voltage" in <a href="#">Features</a> ..... 1</li> <li>Added "Up to 5000 V<sub>RMS</sub> isolation rating" in <a href="#">Features</a> ..... 1</li> <li>Added "Up to 12.8 kV surge capability" in <a href="#">Features</a> ..... 1</li> <li>Added "±8 kV IEC 61000-4-2 contact discharge protection across isolation barrier" in <a href="#">Features</a> ..... 1</li> <li>Changed UL certification bullet From: "5000 V<sub>RMS</sub> (DW) and 2500 V<sub>RMS</sub> (DBQ) Isolation Rating per UL 1577" To: "UL 1577 component recognition program" in <a href="#">Features</a> ..... 1</li> <li>Deleted "All Certifications Complete except CQC Approval of DBQ-16 Package Devices" bullet in <a href="#">Features</a> ..... 1</li> <li>Updated list of applications in <a href="#">Applications</a> section ..... 1</li> <li>Updated <a href="#">Simplified Schematic</a> to show two isolation capacitors in series per channel instead of a single isolation capacitor ..... 1</li> <li>Added "Contact discharge per IEC 61000-4-2" specification of ±8000 V in <a href="#">ESD Ratings</a> table ..... 6</li> <li>Added the following table note to <i>Data rate</i> specification in <a href="#">Recommended Operating Conditions</a> table: "100 Mbps is the maximum specified data rate, although higher data rates are possible." ..... 6</li> <li>Changed V<sub>IORM</sub> value for DW-16 package From: "1414 V<sub>PK</sub>" To: "2121 V<sub>PK</sub>" in <a href="#">Insulation Specifications</a> table ..... 8</li> <li>Changed V<sub>IOWM</sub> value for DW-16 package AC voltage From: "1000 V<sub>RMS</sub>" To: "1500 V<sub>RMS</sub>" and DC voltage From: "1414 V<sub>DC</sub>" To: "2121 V<sub>DC</sub>" in <a href="#">Insulation Specifications</a> table ..... 8</li> <li>Added 'see <a href="#">Figure 27</a>' to TEST CONDITIONS of V<sub>IOWM</sub> specification in <a href="#">Insulation Specifications</a> ..... 8</li> <li>Changed V<sub>IOSM</sub> TEST CONDITIONS From: "Test method per IEC 60065" To: "Test method per IEC 62368-1" in <a href="#">Insulation Specifications</a> table ..... 8</li> <li>Updated certification information in <a href="#">Safety-Related Certifications</a> table ..... 9</li> <li>Corrected ground symbols for "Input (Devices with F suffix)" in <a href="#">Device I/O Schematics</a> ..... 22</li> <li>Added <a href="#">Insulation Lifetime</a> sub-section under <a href="#">Application Curves</a> section ..... 26</li> <li>Added 'How to use isolation to improve ESD, EFT, and Surge immunity in industrial systems' application report to <a href="#">Documentation Support</a> section ..... 29</li> </ul>			
The datasheet number will be changing.			
Device Family		Change From:	Change To:
ISO7730-Q1, ISO7731-Q1		SLLSEU3B	SLLSEU3C
<p>These changes may be reviewed at the datasheet links provided.  <a href="http://www.ti.com/product/ISO7730-Q1">http://www.ti.com/product/ISO7730-Q1</a></p>			
<b>Reason for Change:</b>			
To accurately reflect device characteristics.			
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>			
No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.			
<b>Changes to product identification resulting from this notification:</b>			
None.			

Product Affected:			
ISO7730FQDBQQ1	ISO7730FQDBQRQ1	ISO7730FQDWQ1	ISO7730FQDWRQ1
ISO7730QDBQQ1	ISO7730QDBQRQ1	ISO7730QDWQ1	ISO7730QDWRQ1
ISO7731FQDBQQ1	ISO7731FQDBQRQ1	ISO7731FQDWQ1	ISO7731FQDWRQ1
ISO7731QDBQQ1	ISO7731QDBQRQ1	ISO7731QDWQ1	ISO7731QDWRQ1

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
WW Change Management Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>

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