



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20211209001
Datasheet for DACx750 and DACx760
Information Only**

Date: December 17, 2021
To: TOKYO ELECTRON DEVICE (DSTR) 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).

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
DAC8760IPWPR	null
DAC8760IRHAT	null
DAC7750IRHAR	null
DAC7760IPWPR	null
DAC8750IRHAT	null
DAC8760IRHAR	null
DAC7760IRHAR	null
DAC7750IPWPR	null
DAC8750IRHAR	null

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

Notification Number:	20211209001	Notification Date:	December 17, 2021
Title:	Datasheet for DACx750 and DACx760		
Customer Contact:	Notification Manager	Dept:	Quality Services
Change Type:	Electrical Specification		

Notification Details

Description of Change:

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.



DAC7750, DAC8750

SBAS538D – DECEMBER 2013 – REVISED DECEMBER 2021

Changes from Revision C (January 2018) to Revision D (December 2021)

Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Changed <i>Loop compliance voltage</i> to <i>Reference input voltage</i> , and <i>Reference input voltage</i> to <i>External reference current</i> in <i>Recommended Operating Conditions</i>	5
• Changed <i>Digital input low voltage</i> test condition upper limit from 2.6 V to 3.6 V in <i>Recommended Operating Conditions</i>	5
• Deleted <i>Timing Requirements: Daisy-Chain Mode</i> section and <i>Daisy-Chain Mode Timing</i> figure.....	10
• Deleted <i>Power-Supply Sequence</i> section; content moved to <i>Power Supply Recommendations</i> section.....	21
• Deleted daisy-chain operation content from <i>Watchdog Timer</i> section.....	23
• Deleted <i>The DACx750 Shares the SPI Bus With Other Devices</i> subsection from <i>Watchdog Timer</i> section...	23
• Deleted daisy-chain operation from <i>Frame Error Checking</i> section.....	23
• Added CRC fault reset command of 0x96 to <i>Frame Error Checking</i> section.....	23
• Deleted <i>The DACx750 Shares the SPI Bus With Other Devices</i> subsection.....	23
• Changed duplicated 010 step-size from 0.125 to 0.25 in Table 8-3, <i>Slew Rate Step-Size Options</i>	25
• Added CRC fault reset command to Table 8-8, <i>Write Address Functions</i>	30
• Deleted <i>Daisy-Chain Operation</i> section.....	31
• Added <i>Multiple Devices on the Bus</i> section.....	31
• Changed Table 8-11 to delete daisy-chain operation and add CRC fault reset.....	32
• Changed <i>DCEN</i> to <i>Reserved</i> for DB3 in <i>Control Register</i> table.....	32
• Deleted text stating CAP2 pin is only available for the 40-pin VQFN package.....	35
• Added series resistance for supply and corrected HART-IN capacitance for Figure 9-3.....	37
• Added content from deleted <i>Power-Supply Sequence</i> section to <i>Power Supply Recommendations</i> section..	40
• Added fast supply ramp and series resistance content to <i>Power-Supply Recommendations</i>	40
• Added power supply series resistance to Figure 11-1, <i>Layout Example</i>	41



DAC7760, DAC8760

SBAS528D – JUNE 2013 – REVISED DECEMBER 2021

Changes from Revision C (January 2018) to Revision D (December 2021) Page

• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Changed CMP pin description in <i>Pin Functions</i> table to include 100-pF capacitance to ground.....	3
• Deleted <i>Timing Requirements: Daisy-Chain Mode</i> section and <i>Daisy-Chain Mode Timing</i> figure.....	13
• Added 100-pF capacitance to ground for larger external compensation capacitors in <i>Voltage Output Stage</i> section.....	28
• Deleted <i>Power-Supply Sequence</i> section.....	31
• Deleted daisy-chain operation content from <i>Watchdog Timer</i> section.....	33
• Deleted <i>The DACx760 Shares the SPI Bus With Other Devices</i> subsection from <i>Watchdog Timer</i> section...	33
• Deleted daisy-chain operation content from <i>Frame Error Checking</i> section.....	33
• Added CRC fault software reset command of 0x96 to <i>Frame Error Checking</i> section.....	33
• Deleted <i>The DACx760 Shares the SPI Bus With Other Devices</i> subsection from <i>Frame Error Checking</i> section.....	33
• Changed duplicated 010 step-size from 0.125 to 0.25 in Table 8-3, <i>Slew Rate Step-Size Options</i>	35
• Added CRC fault reset command to Table 8-8, <i>Write Address Functions</i>	40
• Deleted <i>Daisy-Chain Operation</i> section.....	41
• Added <i>Multiple Devices on the Bus</i> section.....	41
• Changed <i>Command and Register Map</i> table to delete daisy-chain operation content and add CRC fault reset content.....	42
• Changed DCEN to Reserved for DB3 in Table 8-17, <i>Control Register</i>	43
• Added series resistance for supply and 100-pF capacitance from CMP to GND for Figure 9-3.....	49
• Added text on fast supply ramp, series resistance for power supply, and content from deleted <i>Power-Supply Sequence</i> to the <i>Power Supply Recommendations</i> section.....	52
• Added power supply series resistance and CMP capacitor to GND to Figure 11-1, <i>Layout Example</i>	54

The datasheet number will be changing.

Device Family	Change From:	Change To:
DACx750	SBAS538C	SBAS538D
DACx760	SBAS528C	SBAS528D

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/DAC8750IRHAT>

<http://www.ti.com/product/DAC7760IPWP>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a documentation change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this notification:

None.

Product Affected:

DAC7750IPWP	DAC7750IPWPR	DAC7750IRHAR	DAC7750IRHAT	
DAC8750IPWP	DAC8750IPWPR	DAC8750IRHAR	DAC8750IRHAT	
DAC7760IPWP	DAC7760IPWPR	DAC7760IRHAR	DAC7760IRHAT	
DAC8760IPWP	DAC8760IPWPR	DAC8760IRHAR	DAC8760IRHAT	

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	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW Change Management Team	PCN_ww_admin_team@list.ti.com

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