

<b>Notification Number:</b>	20230522010.0	<b>Notification Date:</b>	May 23, 2023
<b>Title:</b>	Datasheet for AFE4432		
<b>Customer Contact:</b>	<a href="#">Notification Manager</a>	<b>Dept:</b>	Quality Services
<b>Change Type:</b>	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.



**AFE4432**

SBASAL8A – AUGUST 2022 – REVISED APRIL 2023

Changes from Revision * (August 2022) to Revision A (April 2023)	Page
• Changed the PDNAFE table note for the RX_SUP current parameter in the <a href="#">Electrical Characteristics – PPG Signal Chain</a> table.....	8
• Added table note to the frequency of internal oscillator parameter in the <a href="#">Electrical Characteristics – Clocking</a> table.....	9
• Added parameter <i>Minimum serial clock speed</i> to the <a href="#">Electrical Characteristics – Interface</a> table.....	10
• Changed the typical value for parameter <i>Maximum serial clock speed</i> from: 10 MHz to: 8 MHz.....	10
• Added table note to the minimum serial clock speed parameter in the <a href="#">Electrical Characteristics – Interface</a> table.....	10
• Added parameter $t_{\text{STECLK23}}$ and table note to the <a href="#">SPI Interface Timing</a> table.....	10
• Added parameter $t_{\text{STECLK23}}$ to <a href="#">Figure 6-1</a> .....	10
• Changed <a href="#">Figure 7-2</a> .....	18
• Added note on CLK_TE programming to <a href="#">Overview - Clocking</a> .....	18
• Changed table note in <a href="#">Table 7-2</a> .....	18
• Added table note to <a href="#">Table 7-4</a> .....	18
• Changed <a href="#">Table 7-8</a> .....	23
• Changed <a href="#">Table 7-9</a> .....	26
• Changed <a href="#">Figure 7-15</a> .....	29
• Changed the $S_0$ table note in <a href="#">Table 7-13</a> .....	30
• Added note for code jump stitching to <a href="#">Maximum Ambient Rejection Mode</a> .....	30
• Changed <a href="#">Figure 7-18</a> .....	32
• Added <a href="#">Analog-to-Digital Converter (ADC)</a> section.....	47
• Divided <a href="#">ADC Averaging for PPG Phase Conversions</a> section into <a href="#">ADC Averaging for PPG Phase Conversions</a> and <a href="#">ADC Code During Output Saturation</a> .....	47
• Changed <a href="#">Dynamic Range Enhancement (DRE)</a> to <a href="#">Dynamic Range Extension (DRE)</a> in the <a href="#">Overview - Input DC Cancellation</a> section.....	49
• Added table note to <a href="#">Table 7-33</a> .....	51
• Changed <a href="#">Table 7-34</a> .....	51
• Changed <a href="#">Figure 7-35</a> .....	57
• Added information to <a href="#">Power Modes</a> .....	68
• Changed <a href="#">RESET Modes</a> .....	68
• Added <a href="#">Constraints When Reading Page 1 Registers Inside the Active Window</a> section.....	76
• Changed Register 3 Name information in <a href="#">Table 7-48</a> .....	84
• Added information to the PDN_OSCL_IN_DEEP_SLEEP bit description in <a href="#">Table 7-59</a> .....	92
• Added information to the PDNAFE bit description in <a href="#">Table 7-61</a> .....	93
• Changed DESIGN_ID bit description in <a href="#">Figure 7-77</a> from: 0x111 to: 0x121 .....	94
• Added Register Address 57 [Dec] <a href="#">Register: 39h</a> [Hex] section.....	96

The datasheet number will be changing.

Device Family	Change From:	Change To:
AFE4432	SBASAL8	SBASAL8A

The document is not available on the TI website. Please contact the document owner at [tsmanu@ti.com](mailto:tsmanu@ti.com) or visit the MySecure site for a copy of the full datasheet.

<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 documentation change announcement only. There are no changes to the actual device.			
<b>Changes to product identification resulting from this notification:</b>			
None.			
<b>Product Affected:</b>			
AFE4432YCHR	AFE4432YCHT		

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
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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