



<b>Title of Change:</b>	MT9P006 Datasheet Update.
<b>Effective date:</b>	29 June 2018
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <Sonya.Yip@onsemi.com>
<b>Type of notification:</b>	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.
<b>Change Category:</b>	<input type="checkbox"/> Wafer Fab <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other <u>Documentation</u>

**Change Sub-Category(s):**

Manufacturing Site Addition   
  Material Change   
  Datasheet/Product Doc change  
 Manufacturing Site Transfer   
  Product specific change   
  Shipping/Packaging/Marking  
 Manufacturing Process Change   
  Other: \_\_\_\_\_

<b>Sites Affected:</b>	ON Semiconductor Sites: None	External Foundry/Subcon Sites: None
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**Description and Purpose:**

MT9P006 Datasheet was updated to correct a documentation error. These changes do not affect form, fit, or function of the product.

**MT9P006 Datasheet Change**

**1. Updated "Table 15, Gain Increment Settings" note 3.**

**Old Note 3:**

Table 15. GAIN INCREMENT SETTINGS

Gain Range	Increments	Digital Gain	Analog Multiplier	Analog Gain
1-4	0.125	0	0	8-32
4.25-8	0.25	0	1	17-32
9-128	1	1-120	1	32

- Analog gain should be maximized before applying digital gain.
- The recommended minimum gain is 1.38 (0x000B).
- For optimal sensor performance, when using gain settings <= 4.0, also set reserved register R0x3E = 0x0080 and for gain settings >4.0, set register R0x03E=0x00C0.

**New Note 3:**

Table 15. GAIN INCREMENT SETTINGS

Gain Range	Increments	Digital Gain	Analog Multiplier	Analog Gain
1-4	0.125	0	0	8-32
4.25-8	0.25	0	1	17-32
9-128	1	1-120	1	32

- Analog gain should be maximized before applying digital gain.
- The recommended minimum gain is 1.38 (0x000B).
- For optimal sensor performance, when using gain settings <= 4.0, also set reserved register R0x3E = 0x0007 and for gain settings >4.0, set register R0x3E = 0x0087.



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## Appendix A: Changed Products

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Product	Customer Part Number
MT9P006I12STCU-DP	
MT9P006I12STCU-DR	



**List of Affected Parts:**

MT9P006I12STCU-DP

MT9P006I12STCU-DR