



Title of Change:	AR0521 Datasheet Update.	
Effective date:	9 November 2017	
Contact information:	Contact your local ON Semiconductor Sales Office or <Sonya.Yip@onsemi.com>	
Type of notification:	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.	
Change category:	<input type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other <u>Documentation</u>	
Change Sub-Category(s):	<input type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Material Change <input type="checkbox"/> Product specific change <input checked="" type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____	
Sites Affected:	ON Semiconductor Sites: None	External Foundry/Subcon Sites: None

Description and Purpose:

AR0521 datasheet was updated to correct documentation errors. The changes will not impact form, fit, or function of products.

AR0521 Datasheet Changes

1. Updated "Table 18, PLL Divider Equations" to match Dynamic Range value in Key Parameters table on page 1.

Old Table 18:

Table 18. IMAGE SENSOR CHARACTERISTICS

(All specifications address operation at $T_J = 60^\circ\text{C} (\pm 3^\circ\text{C})$, $V_{AA} = V_{AA_PIX} = 2.7\text{ V}$, $V_{DD} = V_{DD_ANA} = V_{DD_PHY} = 1.2\text{ V}$, $V_{DD_IO} = V_{DD_IO_ANA} = 1.8\text{ V}$. Unless otherwise specified, all tests are performed with ON Semiconductor-recommended settings in full resolution, max FPS mode at minimum recommended gain and resulting images are averaged and analyzed.)

Item	Symbol	Min	Typ	Max	Unit	Region	Measurement Method	Comments
Responsivity	S		4700		e ⁻ /lx.sec	Center	1.0	

NOTE: G1/G2 green imbalance limitation is within 1.5%.

New Table 18:

Table 18. IMAGE SENSOR CHARACTERISTICS

(All specifications address operation at $T_J = 60^\circ\text{C} (\pm 3^\circ\text{C})$, $V_{AA} = V_{AA_PIX} = 2.7\text{ V}$, $V_{DD} = V_{DD_ANA} = V_{DD_PHY} = 1.2\text{ V}$, $V_{DD_IO} = V_{DD_IO_ANA} = 1.8\text{ V}$. Unless otherwise specified, all tests are performed with ON Semiconductor-recommended settings in full resolution, max FPS mode at minimum recommended gain and resulting images are averaged and analyzed.)

Item	Symbol	Min	Typ	Max	Unit	Region	Measurement Method	Comments
Responsivity	S		18.8		ke ⁻ /lux*sec	Center	1.0	

NOTE: G1/G2 green imbalance limitation is within 1.5%.

Note: Key Specifications Table (Reference Only):

Parameter	Specification
Responsivity	18.8 ke ⁻ /lux*sec (RGB) 36 ke ⁻ /lux*sec (Mono)



List of Affected Parts:

AR0521SR2C09SURA0-DR
AR0521SR2M09SURA0-DR
AR0521SR2M09SURA0-DP
AR0521SR2C09SURA0-DP



Appendix A: Changed Products

D

Product	Customer Part Number
AR0521SR2C09SURA0-DR	