



Title of Change:	AR0143AT Datasheet Update
Effective date:	09 Aug 2021
Contact information:	Contact your local ON Semiconductor Sales Office or Yong.Gao@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:	Documentation Change
Change Sub-Category(s):	Datasheet/Product Doc change

Sites Affected:**ON Semiconductor Sites**

None

External Foundry/Subcon Sites

None

Description and Purpose:

AR0143AT Datasheet was updated with new information. These changes do not affect form, fit, or function of the product.

- Updated Table 1, Operating Temperature Range (Ambient) to match AEC-Q100 grade 2 requirement.

Old Table 1:**Table 1. KEY PARAMETERS**

Parameter	Value
Optical format	1/4 inch
Maximum resolution	1344 x 968 (1.3 Mp)
Shutter type	Electronic Rolling Shutter (ERS)
Pixel size	3 μm
Pixel output interfaces	12-bit parallel MIPI CSI-2 Up to 4-lane HiSPi with SLVS and HVICM
Output formats	12-bit Uncompressed Linear 20-bit Uncompressed HDR 10-bit Companded Linear 16-bit, 14-bit, or 12-bit Companded HDR
Control interface	2-wire, Serial Control 100 kHz/400 kHz/1 MHz
Input clock range	6–50 MHz in PLL mode
Default Frame Rate	30 fps (Note 1)
Output pixel clock maximum	78 MHz
Responsivity	28.7 Ke-/lux-s (Note 2)
SNRmax	36.5 dB (LCG), 34.7 dB (HCG)
Max Dynamic Range	>140 dB, 4-exposure (Note 3)
Packaging options	9 mm x 9 mm iBGA
Operating temp. range	–40°C to 110°C Ambient –40°C to 125°C Junction
Supply voltage	I/O 1.8 V or 2.8 V Digital 1.2 V Analog 2.8 V HiSPi 0.4 V or 1.8 V
Power consumption	<330 mW typical (1344x968, 3exp HDR, 30 fps)

New Table 1 :**Table 1. KEY PARAMETERS**

Parameter	Value
Optical format	1/4 inch
Maximum resolution	1344 x 968 (1.3 Mp)
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List of Affected Standard Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

AR0143ATSC00XUEA0-DPBR	AR0143ATSC00XUEA0-DRBR	AR0143ATSC00XUEA0-TPBR
AR0143ATSC00XUEA0-TRBR	AR0143ATSC00XUEA1-TRBR	AR0143ATSC00XUEA1-TPBR
AR0143ATSC00XUEA1-DRBR	AR0143ATSC00XUEA1-DPBR	

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: *The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.*

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



変更件名:	AR0143AT データシート更新	
発効日:	09 Aug 2021	
連絡先情報:	現地のオン・セミコンダクター営業所または < Yong.Gao@onsemi.com > にお問い合わせください。	
通知種別:	本製品速報は通知目的のみのものです。オン・セミコンダクターは本製品速報の発行により本変更を実行します。	
変更カテゴリ:	文書変更	
変更サブカテゴリ	データシート/製品資料の変更 データシート/製品資料の変更	
影響を受ける拠点:		
オン・セミコンダクター拠点:		外部製造工場 / 下請業者拠点:
なし		なし

説明および目的:

AR0143AT データシートは新しい情報をもとに更新されました。この変更による製品の形状、適合性、機能への影響はありません。

1. 更新後の表 1、AEC-Q100 等級 2 要件に適合する動作温度範囲 (周囲) です。

旧表 1:

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新表 1:

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影響を受ける部品の一覧:

注: 標準の部品番号 (既製品) のみが部品一覧に記載されます。本 PCN に影響を受けるカスタム 部品は、PCN メールの顧客の特定の PCN の付属文書、または PCN カスタマイズポータルに記載されています。

AR0143ATSC00XUEA0-DPBR	AR0143ATSC00XUEA0-DRBR	AR0143ATSC00XUEA0-TPBR
AR0143ATSC00XUEA0-TRBR	AR0143ATSC00XUEA1-TRBR	AR0143ATSC00XUEA1-TPBR
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