ARX3A0 IAS Module

Prototype 1/10.3-inch 0.3 Mp Fast Rolling Shutter

Advance Information

IAS1MOD-ARX3A0CSSC090110-GEVB

The ARX3A0 0.3 MP IAS module is part of the ON Semiconductor IAS family of modules offering standardized connectors, layout configuration and OTPM protocol. The modules are compatible with Evaluations systems and reference designs offered by ON Semiconductor. The modules are offered from ON Semiconductor as prototype modules not meant for customer production shipments. Customer can work with ON Semiconductor Distribution partners for equivalent mass production versions of these modules.

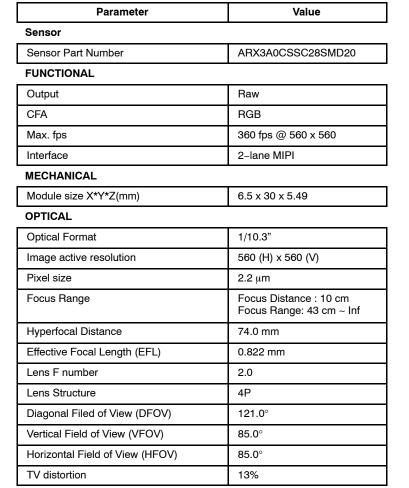


Table 1. KEY PERFORMANCE PARAMETERS



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Applications

- IoT and Low Power Applications
- Machine Vision
- Artificial Intelligence

This document contains information on a new product. Specifications and information herein are subject to change without notice.

Table 1. KEY PERFORMANCE PARAMETERS

Parameter	Value	
ELECTRICAL		
Supply voltages	VDDIO: 1.8 V VDD: 1.2 V VAA: 2.7 V	
I2C Pull-up Resistor in Module (Note 1)	No pull–up resistor in module.	
PROGRAMMABLE STORAGE		
This module has programmable storage.	EEPROM/OTPM is programed per IAS programming specifications. Please refer to the IAS Module EEPROM and OTPM Application note (AND9865/D) for more information.	

1. ON Semiconductor recommends that host sites add a 1.5k pull-up resistor.

Table 2. ORDERING INFORMATION

Part Number	Orderable Product Attribute Description	
IAS1MOD-ARX3A0CSSC090110-GEVB	ARX3A0 0.3MP 1/10.3" RGB Die in IAS module with 121.0° DFOV Lens	
IAS1-ADPTR-DM3D1-GEVB	Adapter Board to Demo3, DevWareX Supported	

Table 3. MODULE CONNECTOR PINOUT

Pin Number	Pin Name	Pin Number	Pin Name
1	GPIO1	34	GPI3
2	GND	33	GND
3	GND	32	EXTCLK
4	DATA_P	31	GND
5	DATA_N	30	DATA_2P
6	GND	29	DATA_2N
7	CLK_P	28	GND
8	CLK_N	27	NC
9	GND	26	NC
10	NC	25	GND
11	NC	24	VDD
12	GND	23	VDD
13	VDDIO	22	SDATA
14	SCLK	21	XSHUTDOWN
15	GPIO0	20	GPI2
16	GND	19	GND
17	VAA	18	VAA

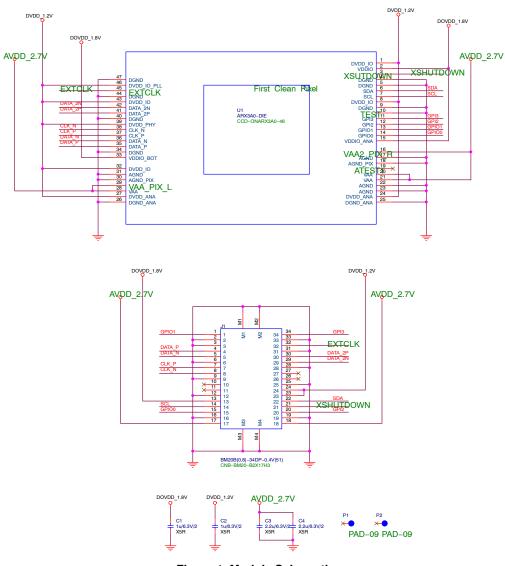


Figure 1. Module Schematic

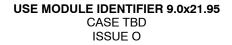
MODULE CONNECTOR

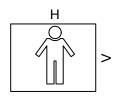
	Part Number	Connector Type	Pin Numbers	Mated Height	Contact Pitch
BM	20B(0.8)-34DP-0.4V(51)	Plug	34	0.8 mm	0.4 mm



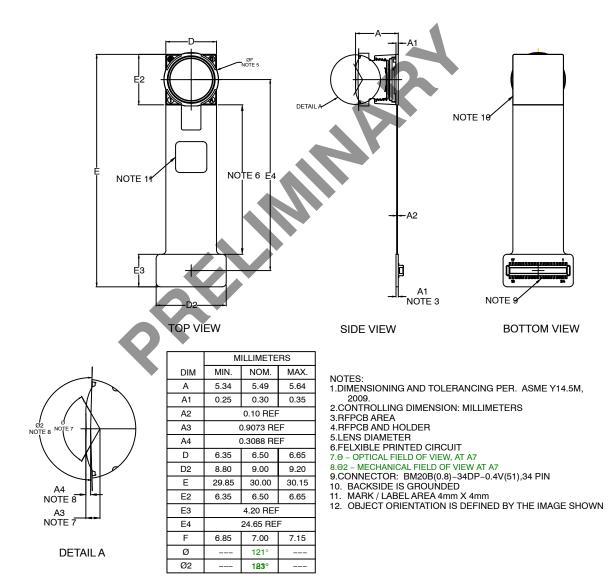
Figure 2.

MECHANICAL DIMENSIONS





Real Object



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