

AR0132AT Evaluation Board User's Manual



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EVAL BOARD USER'S MANUAL

The image shows a top-down view of the AR0132 6318GA demo board. The board is populated with numerous electronic components, including capacitors, resistors, and integrated circuits. A large, black, circular camera lens is mounted in the center. The lens has "AR0132 6318GA" printed on its outer ring. Below the lens, the "Aptina" logo is visible. The board is labeled with "AR0132_6318GA_DEMOHEAD_REV" and "Ver 1.0". The board is populated with various electronic components, including capacitors, resistors, and integrated circuits. The board is labeled with "AR0132_6318GA_DEMOHEAD_REV" and "Ver 1.0".

Figure 1. AR0132AT Evaluation Board

- ### Block Diagram

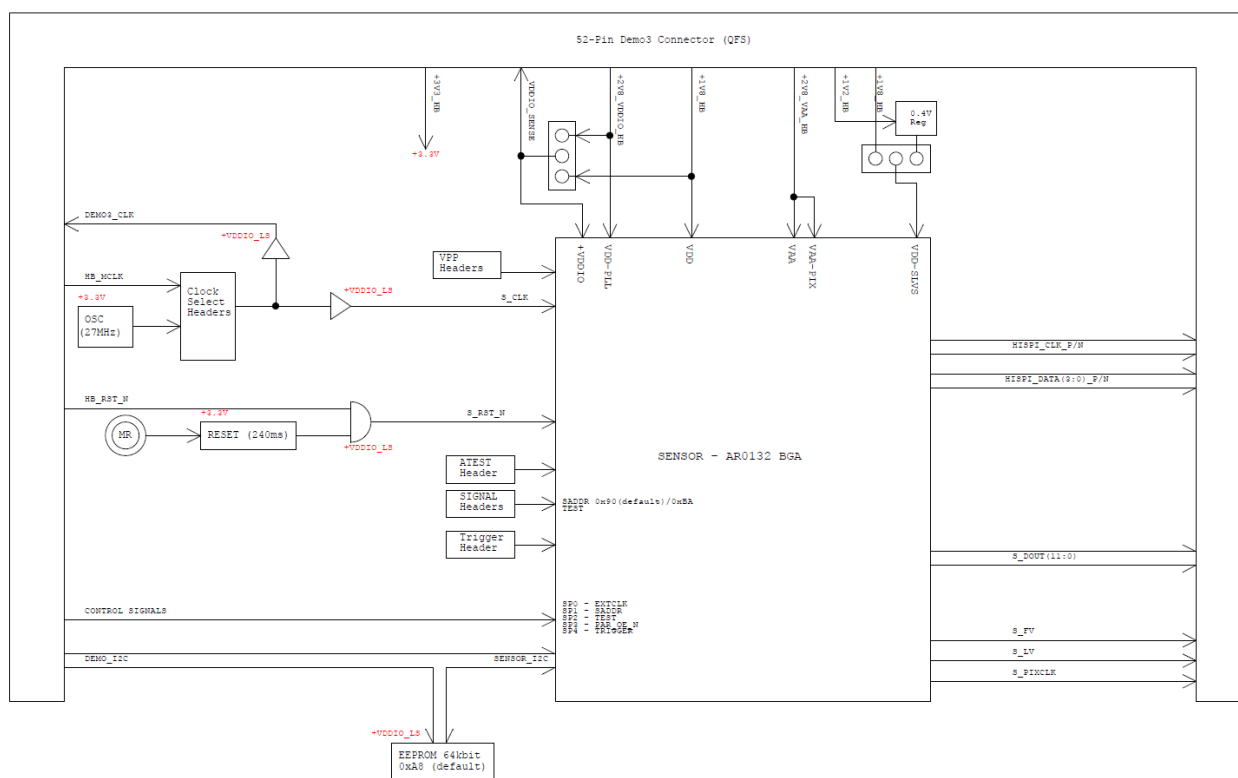


Figure 2. Block Diagram of AR0132AT6C00XPEAH3-S215-GEVB

Jumper Pin Locations

The jumpers on headboards start with Pin 1 on the leftmost side of the pin. Grouped jumpers increase in pin size with each jumper added.



Figure 5. Pin Locations for a Single Jumper. Pin 1 is Located at the Leftmost Side and Increases as it Moves to the Right

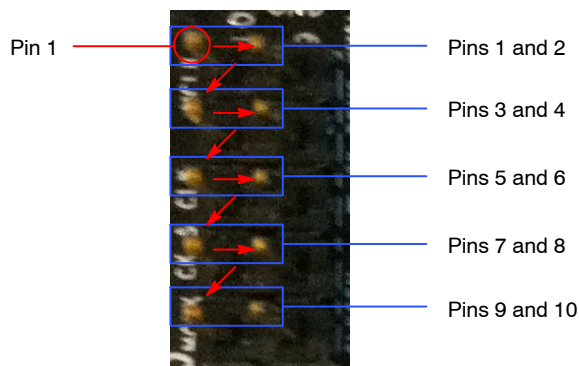


Figure 6. Pin Locations and Assignments of Grouped Jumpers. Pin 1 is Located at the Top-Left Corner and Increases in a Zigzag Fashion Shown in the Picture

Jumper/Header Functions & Default Positions

Table 1. JUMPERS AND HEADERS

Jumper/Header No.	Jumper/Header Name	Pins	Description
P3	VPP	Open	OTPM Programming Voltage Not Supplied
P4	SADDR	2-3 (Default)	I ² C Address Set to 0x20
		1-2	I ² C Address Set to 0x30
P5	TEST	2-3 (Default)	Set to Normal Mode
		Open	Set to Test Mode
P6	OE_N	2-3 (Default)	Parallel Output Enabled
		Open	Parallel Output Disabled; HiSPi Output Enabled
P7	FLASH	1	+5V0
		2	GND
		3	FLASH
		4	+3V3
P8	STANDBY	2-3 (Default)	Normal Mode
		1-2	Standby Mode
P14	ATEST	1-2 (Default)	ATEST → GND
P16	VDD_IO	1-2 (Default)	1.8 V Operation of Sensor
		2-3	2.8 V Operation of Sensor
P18	HiSPi Mode	1-2 (Default)	SLVS Mode
		2-3	Hi-VCM Mode

Table 1. JUMPERS AND HEADERS (continued)

Jumper/Header No.	Jumper/Header Name	Pins	Description
P19	Master Clock	1–2 (Default)	On-Board Oscillator (27 MHz)
		2–3	AR0132 Evaluation Board MCLK
P24	I ² C	1–2 & 3–4 (Default)	Demo 3 SCL & SDA Connected to Sensor SCL & SDA Respectively
P27	EEPROM Addr. Sel	3–4 Open & 1–2 Closed (Default)	EEPROM Address Set to 0xA8
		3–4 Open & 1–2 Closed	EEPROM Address Set to 0xAC
		3–4 Open & 1–2 Closed	EEPROM Address Set to 0xA4
		3–4 Open & 1–2 Closed	EEPROM Address Set to 0xA0
P28	TRIGGER	1–2	Trigger Input Enabled
		Open (Default)	Connect Generator Between Pin 1 and GND
SW1	RESET	N/A	When Pushed, 240 ms Reset Signal will be Sent to AR0132

Interfacing to ON Semiconductor Demo 3 Baseboard

The ON Semiconductor Demo 3 baseboard has a similar 52-pin connector which mates with J1 of the headboard.

The four mounting holes secure the baseboard and the headboard with spacers and screws.

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