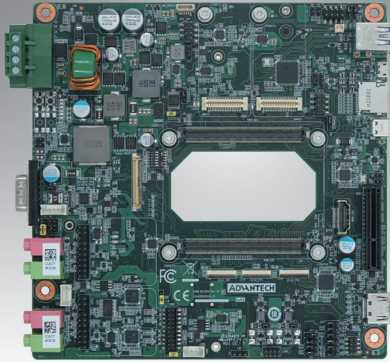


AOM-DB3500

Development Board for AI-on-Module RTXe

NEW



CE FCC RoHS

Features

- Supports AOM-Rugged, RTXe Module
- HDMI, DP (Via Type C), eDP/LVDS/MIPI DSI
- 2 x MIPI CSI (4 Lane), 1 x MIPI CSI (4 Lane)/HDMI RX
- 2 x GMAC, 1 x USB 2.0, 2 x USB 3.0, 2 x RS485/232, 1 x 4 Wires RS232, 2 x CAN FD
- 2 x M.2 E Key, 1 x M.2 B Key, 1 x MicroSD, 1 x PCIe 3.0 x 4 Lane
- 2 x I2S, 2 x SPI, 2 x I2C/I3C, 1 x SDIO
- Supports +24V DC power input

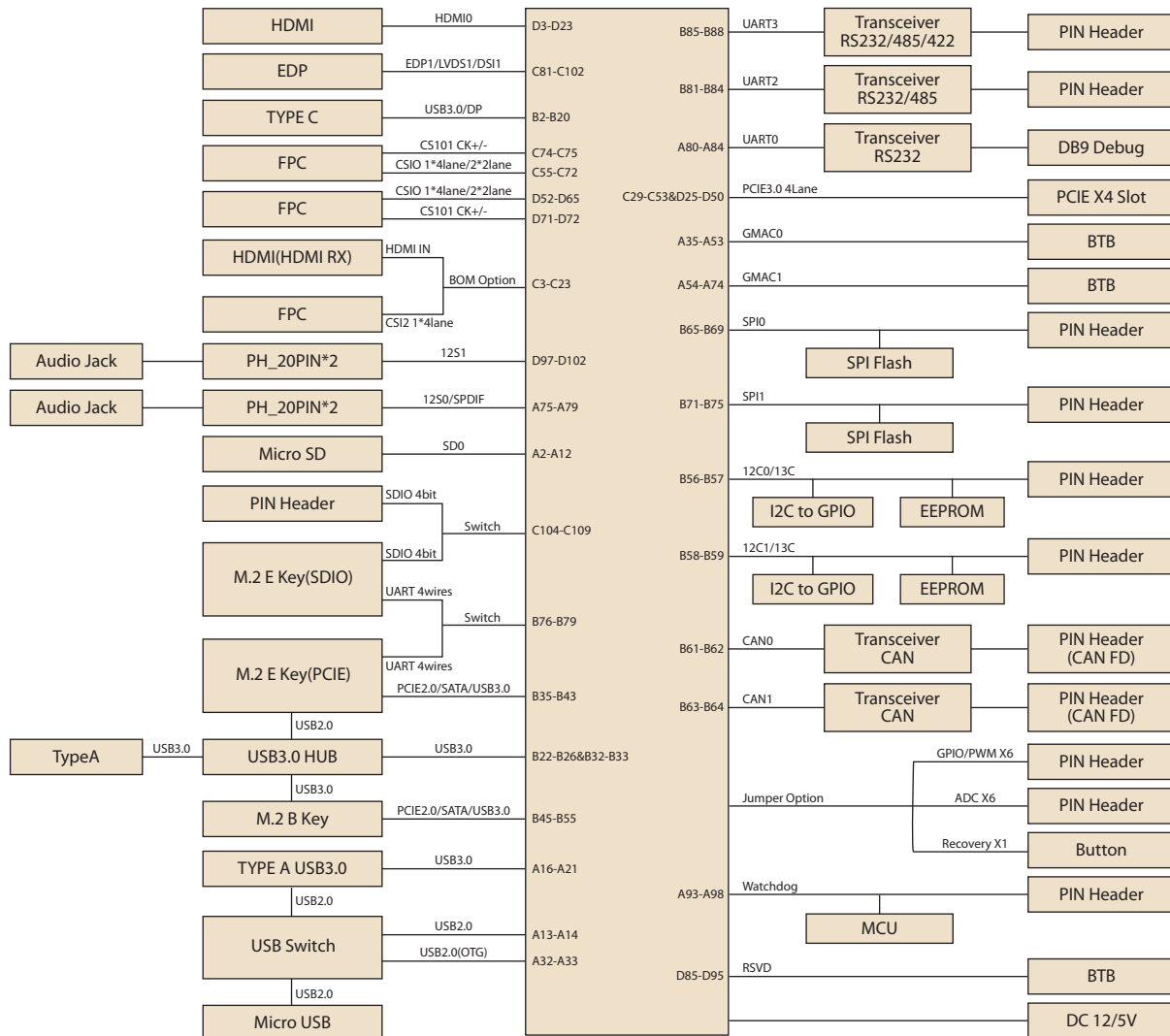
Introduction

AOM-DB3500 is the Referenced Carrier Board designed for Advantech's RTXe AI-on-Module. It provides a thorough environment for module board evaluation with its complete function support. It's easier for the end user to design portable devices by referring AOM-DB3500 design.

Specifications

Compatible Modules	RTXe AI-on-Module	
Display out	HDMI	1
	eDP/LVDS/MIPI DSI	1
	DP/USB3.0 TypeC	1
Video In	MIPI CSI (4 Lane)	2
	MIPI CSI (4 Lane) /HDMI RX	1 x MIPI CSI (4 Lane) or HDMI RX by BOM option
Ethernet	LAN	2 x B2B Connector by (S)(R)(G)MII
I/O	USB	1 x USB 2.0 by microUSB 2 x USB 3.0 with USB Type A
	M.2	1 x M.2 E Key with SDIO&UART 1 x M.2 E Key with PCIe2.0/SATA/USB3.0&USB2.0&UART 1 x M.2 B Key with PCIe2.0/SATA/USB3.0
	I2S/SPDIF	1 x I2S PIN Header with AUDIO JACK 1 x I2S/SPDIF PIN Header with AUDIO JACK
	MicroSD	1 x MicroSD Slot
	SDIO	1 x Pin Header
	SPI	2 x Pin Header with SPI Flash(default)
	I2C/I3C	2 x Pin Header with E2PROM(default)
	RS232/485	2 x Pin Header
	Uart	1 x DB9 for Debug
	CAN FD	2 x Pin Header
	GPIO/PWM/ADC	8 x Pin Header
	PCIe 3.0	1 x PCIe4 slot
Power	Power IN	+24V ±10%
Environment	Operating Temperature	-40 ~ 85 °C
	Operating Humidity	40 °C @ 95% Relative Humidity, non-condensing
Mechanical	Dimensions (W x D)	170 x 170 mm

Block Diagram



Ordering Information

Part No.	Description
AOM-DB3500-SWNA1	AOM-DB3500 HDMI in,E&B key:PCIE
AOM-DB3500-SWNB1	AOM-DB3500 CSI ,E key:PCIE ,B key:USB

Packing List

Part No.	Description
AOM-DB3500	RTXe Develop. Board for RISC AOM-Rugged Module
9696EG6A000	ROM-EG6A GMAC LAN

Optional Accessories

Part No.	Description
96PSA-A60W24T2-3	Adapter 100-240V 60W 24V
1702002605	Power cord 3P EU 10A 250V 183cm
1702031801	Power cord 3P UK 10A 250V 183cm
1702002600	Power cord 3P UL 10A 125V 180cm
1700000237	Power cord 3P PSE 183 cm
1700009652	Power cord CCC 3P 10A 250V 183cm