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DART-MX8M-MINI by Variscite 3

Alternatives

DART-MX8M-MINI by Variscite

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Таблица 1: Main technical specifications comparison table

Specifications	CARDSOM_imx8mini_v2 (INMYS)	DART-MX8M-MINI (Variscite)	compliance	Comments
Supply voltage	3.5-5V	3.5-5V	yes	
Mechanical Specifications:				
- Board dimensions	55.18 x 30.11 x 2.9 Fix Me! mm.	55.18 x 30.11 x 5.18(4.7 Fix Me!) mm.	no	
- mounting holes	4 pcs x 2.16 mm	4 pcs x 2.16 mm	no	First hole location mismatch
- board-to-board connector	DF40C-90DP-0.4V	DF40C-90DP-0.4V	yes	The location and type are conforming
- WIFI&BT socket	U.FL JACK plug	U.FL JACK plug	yes	Absent in the standard configuration
Processor	NXP i.MX 8M Mini	NXP i.MX 8M Mini	yes	
Memory				
RAM LPDDR4	Various configurations 1 - 8 GB Fix Me!	Various configurations 1 - 4 GB	no	Basic configuration: 2 GB LPDDR4
eMMC FLASH	Various configurations 4 - 128 GB	Various configurations 8 - 64 GB	yes	Basic configuration: 16 GB eMMC
Networking				
WIFI&BT	Optional	Optional	yes	Absent in basic configuration
Ethernet controller	Optional	Optional	yes	Absent in basic configuration
Audio				
Audio Codec	Absent	Optional	no	
Stereo output to headphones	Absent	Presented	no	
Analog microphone (stereo)	Absent	Presented	no	
Digital microphone	Presented	Presented	yes	
Digital audio: I2S(SAI), SPDIF	Presented	Presented	yes	
line input and output	Absent	Presented	no	
Connectivity				

Specifications	CARDSOM_imx8mini_v2 (INMYS)	DART-MX8M-MINI (Variscite)	compliance	Comments
PCI Express	1	1	yes	REFCLK_N and REFCLK_P connected in a mirror
USB OTG 2.0	2	2	yes	
JTAG	1	1	yes	
Gigabit Ethernet (PHY)	1	1	yes	
QSPI	1	1	yes	
ECSPI	2+1(alt UART)	2+1(alt UART)	yes	Basic configuration: 3
SAI	5	5	yes	Basic configuration: 4
SPDIF	1	1	yes	
SD/SDIO/MMC-interface	1	1	no	write protection available
UART	4	4	yes	
I2C (3 external + 1 internal)	3+1	3+1	yes	
LVDS (MIPI DSI → LVDS)	1	1	yes	2 channels
MIPI CSI	1	1	yes	
GPIO	Depending on the configuration	Depending on the configuration	yes	Basic configuration: 14

As an alternative, with the same form-factor and configuration, can be considered UCM-iMX8M-Mini by Compulab.