Armadillo-610

Hardware specifications

Model number	A6100-D00Z	A6100-U00Z
Product name	Armadillo-610 Development Kit	Armadillo-610 Mass Production Board
CPU	NXP Semiconductors i.MX 6ULL Arm Cortex-A7 (528MHz)	
RAM	512MB (DDR3L-800)	
ROM	3.8GB (eMMC)[※1]	
LAN	RJ45 x 1 (100BASE-TX/10BASE-T, AUTO-MDIX compatible)	Expandable
Wireless LAN	Armadillo-WLAN (AWL13) can be installed IEEE802.11 b/g/n	Expandable
Serial (UART)	RS485 x 1, 3.3V CMOS x 1	3.3V CMOS x max. 8
General-purpose input/output (GPIO)	Maximum 66bit[※2] Contact inputs x 2, Contact outputs x 2[※2]	Maximum 66bit
USB	USB 2.0 (Host) x 2 (High Speed), USB 2.0 (OTG) x 1 (High Speed)	Expandable, USB 2.0 (Host) x2 (High Speed)
SD/MMC	SD card slot x 1[※3]	Equipped with one microSD slot (bootable), expandable via SD card.
Calendar Clock	Equipped with RTC (with backup function).[※4]	SoC built-in RTC can be used,^{2}C expandable
audio	Mono speaker output terminal block, I^{2}S expandable	Expandable
video	LCD expandable (maximum WXGA 1366×768/18bpp)	LCD expandable (LCD I/F, maximum WXGA 1366×768/24bpp)
switch	User switch x 1, Reset switch x 1, Power switch x 1	Expandable
LED	User LED x 1	Debug LED x 1, expandable
Expansion I/F[※5]	Same as A6100-U00Z, equipped with Grove connector.	UART, GPIO, SD, MQS, GPT, I^{2}C, SPI, I^{2}S, LCD, Touch Panel, CAN, PWM, S/PDIF, etc.
Power supply voltage	DC 9-24V ±10%	DC 3.6V to 4.5V
Power consumption (reference value)	Approximately 600mW (standby [LAN not connected]), approximately 750mW (standby [LAN connected])[※6], Approximately 900mW (when communicating via LAN)[※6]	
Operating temperature range	+10°C to +40°C[※7]	-20°C to +70°C[※7]
Secure element	Equipped with SE050[※8]	
External dimensions	115 x 160 mm[※9]*Expansion board size	50 x 50 mm[※9]

[※1] Operates in pSLC mode.
[※2] Used mutually exclusive on the expansion board.
[※3] Mutually exclusive with the microSD slot on the Armadillo-610 main unit.
[※4] Usable when a backup battery (sold separately) is connected.
[※5] Each function can be used mutually exclusively via pin multiplier.
[※6] Power consumption with cables connected to the LAN and serial connectors. Power consumption of the Armadillo-610 main unit was measured with the expansion board included in the development kit connected.
[※7] However, no condensation.
[※8] Scheduled to be included in products shipped around early 2024. Please contact us for details.
[※9] Dimensions excluding protrusions.

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inquiry

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