

## Andino X1 Pico 2G – Datasheet

	Raspberry 4:	Raspberry CM4 with Andino CM4 Adapter	
<b>SoC</b>	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz	Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz	
<b>RAM</b>	4GB LPDDR4-3200 SDRAM	4GB LPDDR2 SDRAM	
<b>Flash</b>	None	32GB eMMC Flash	
<b>PCIe</b>	None	Interla PCIe X1 Port. Can be used for M.2 SSD via Adapter	
<b>WiFi</b>	2.4 GHz and 5.0 GHz IEEE 802.11ac wireless	None	
<b>Bluetooth</b>	Bluetooth 5.0, BLE	None	
<b>Ethernet</b>	Gigabit Ethernet	Gigabit Ethernet over USB 2.0 (max. throughput 300 Mbps)	
<b>Connectivity</b>	2 USB 3.0 ports; 2 USB 2.0 ports. Raspberry Pi standard 40 pin GPIO header 2 × micro-HDMI ports (up to 4kp60) Micro-SD card slot (accessible from outside Andino housing)	2 USB 2.0 ports external 1USB 2.0 port internal Full-size HDMI Extended 40-pin GPIO header	
<b>Delivery</b>	Andino IO, RaspberryPi 4, Breadboard, DIN rail Housing	Andino IO, CM4, Breadboard, DIN rail Housing	
<b>all variants</b>			
<b>Power Supply</b>	Wide range DC input 9-24V, Out: 5V, 3.5 A	<b>Microcontroller type</b>	Raspberry RP2040
<b>I/O's</b>	2 galvanic Isolation Inputs (isolated up to 5kV) 2 Relay Outputs (max. 24 V, 1 A)	<b>RTC</b>	Integrated, battery-buffered Real Time Clock, DS3231 Dallas Semiconductors Accuracy: ± 2ppm between 0 °C and +40 °C
<b>EMC</b>	DIN EN 61000-6-2/3	<b>Dimensions (H x B x T)</b>	115 mm X 108 mm x 60 mm
<b>Housing variant</b>	Top-hat rail housing (plastic)		

See all Information about Andino X1 under [Andino X1 - Overview & Datasheet.pdf](#) | [Andino X1 - Industrial Raspberry Pi PC](#) | [Andino](#)

EMC -Report <https://andino.systems/andino-x1/emc/ANDINO-X1-EMC-Report.pdf>

ROHS – Report <https://andino.systems/andino-x1/emc/ROHS-X1.pdf>

REACH-Report <https://andino.systems/andino-x1/emc/REACH-Clear%20Systems.pdf>

	SIM800L
<b>Power supply</b>	3.4V ~ 4.4V
<b>Frequenz bands</b>	Quad-band: GSM 850, EGSM 900, DCS 1800, PCS 1900. Compliant to GSM Phase 2/2+
<b>Transmitting power</b>	Class 4 (2W) at GSM 850 and EGSM 900 Class 1 (1W) at DCS 1800 and PCS 1900
<b>GPRS connectivity</b>	GPRS multi-slot class 12 (default) GPRS multi-slot class 1~12 (option)
<b>Temperature range</b>	Normal operation: -40°C ~ +85°C
<b>Data GPRS</b>	GPRS data downlink transfer: max. 85.6 kbps GPRS data uplink transfer: max. 85.6 kbps Coding scheme: CS-1, CS-2, CS-3 and CS-4 PAP protocol for PPP connect Integrate the TCP/IP protocol. Support Packet Broadcast Control Channel (PBCCH) CSD transmission rates : 2.4, 4.8, 9.6, 14.4 kbps
<b>SIM interface</b>	Support SIM card: 1.8V, 3V
<b>External antenna</b>	Antenna pad
<b>Serial port and debug port</b>	<b>Serial port:</b> Full modem interface with status and control lines, unbalanced, asynchronous. 1200bps to 115200bps. Can be used for AT commands or data stream. Support RTS/CTS hardware handshake and software ON/OFF flow control. Multiplex ability according to GSM 07.10 Multiplexer Protocol. Autobauding supports baud rate from 1200 bps to 57600bps. upgrading firmware <b>Debug port:</b> USB_DM and USB_DP Can be used for debugging and upgrading firmware.

See all Information about the SIM 800L under <https://www.simcom.com/product/SIM800.html>