

Andino X1 2G – Datasheet

	Raspberry 4:	Raspberry CM4 with Andino CM4 Adapter	
SoC	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz	Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz	
RAM	4GB LPDDR4-3200 SDRAM	4GB LPDDR2 SDRAM	
Flash	None	32GB eMMC Flash	
PCIe	None	Interla PCIe X1 Port. Can be used for M.2 SSD via Adapter	
WiFi	2.4 GHz and 5.0 GHz IEEE 802.11ac wireless	None	
Bluetooth	Bluetooth 5.0, BLE	None	
Ethernet	Gigabit Ethernet	Gigabit Ethernet over USB 2.0 (max. throughput 300 Mbps)	
Connectivity	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	
Delivery	Andino IO, RaspberryPi 4, Breadboard, DIN rail Housing	Andino IO, CM4, Breadboard, DIN rail Housing	
all variants			
Power Supply	Wide range DC input 9-24V, Out: 5V, 2.6A	Microcontroller type	Atmel Atmega 328P (programming over Micro-USB)
I/O's	2 galvanic Isolation Inputs (isolated up to 5kV) 2 Relay Outputs (max. 24V, 1 A)	RTC	Integrated, battery-buffered Real Time Clock, DS3231 Dallas Semiconductors Accuracy: ± 2ppm between 0 °C and +40 °C
EMC	DIN EN 61000-6-2/3	Abmessungen (H x B x T)	115 mm X 108 mm x 60 mm
Gehäusevariante	Hutschienengehäuse (Kunststoff)		

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
Power supply	3.4V ~ 4.4V
Frequenz bands	Quad-band: GSM 850, EGSM 900, DCS 1800, PCS 1900. Compliant to GSM Phase 2/2+
Transmitting power	Class 4 (2W) at GSM 850 and EGSM 900 Class 1 (1W) at DCS 1800 and PCS 1900
GPRS connectivity	GPRS multi-slot class 12 (default) GPRS multi-slot class 1~12 (option)
Temperature range	Normal operation: -40°C ~ +85°C
Data GPRS	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
SIM interface	Support SIM card: 1.8V, 3V
External antenna	Antenna pad
Serial port and debug port	Serial port: 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 Debug port: 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>