Andino IO with 2G Modem - Datasheet

	Raspberry Pi 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, polarity protection, Out: 5V, 2.6A	**Display**	0,98 inch OLED, 128x64 px,
I/O`s	6 galvanic Isolation Inputs (isolated up to 5kV) 3 Relay Outputs (max. 42V, 1 A)	**RTC**	Integrated, battery-buffered Real Time Clock, DS3231 Dallas Semiconductors Accuracy: ± 2ppm between 0 °C and +40 °C
Bus	Onboard support RS232,RS485/RS422, CAN	**EMC**	DIN EN 61000-6-2/3

See all Information about Andino IO under https://andino.systems/andino-io/emc/Andino%20IO%20-%20Overview%20&%20Datasheet.pdf

EMC -Report https://andino.systems/andino-io/emc/ANDINO-IoT-EMC-Report-English.pdf

ROHS – Report https://andino.systems/andino-io/emc/ROHS-IO.pdf

REACH-Report https://andino.systems/andino-io/emc/REACH-Clear%20Systems.pdf

	SIM 800L
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