

Andino IO with LoRa - 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>

	LoRa RN2483 Microchip
Power supply	2.1V – 3.6V (3.3V typical)
Frequenz bands	863.000 MHz to 870.000 MHz 433.050 MHz to 434.790 MHz
Max. Over-the-Air Data Rate	300 kbps with FSK modulation 10937 bps with LoRa Technology modulation
Modulation Method	FSK, GFSK and LoRa Technology modulation
Operation Range	Up to 15 km coverage at suburban Up to 5 km coverage at urban area
Temperature (operating)	-40°C to +85°C
Temperature (storage)	-40°C to +115°C
Humidity	10% ~ 90% non-condensing
Interface	UART

See all Information about RN2483 under <https://www.microchip.com/en-us/product/RN2483>