

Technical Features Gateberry

MODEL TYPE	Gateberry (UPS Smart Shield, Real Time Clock (RTC), RS-485, I2C and Expansion Board for Raspberry Pi)
Input Voltage	12 to 24Vdc (Protected against reverse polarity)
Input rated voltage	24 Vdc
Rated Power	30 W
I max.	3.5 A
Size	Check the dimensions figure
Compatibility	All Raspberry Pi 4 models
Communications & Accessories	RS-485, I2C (3.3V), RTC, Raspberry Pi connectors

General Features

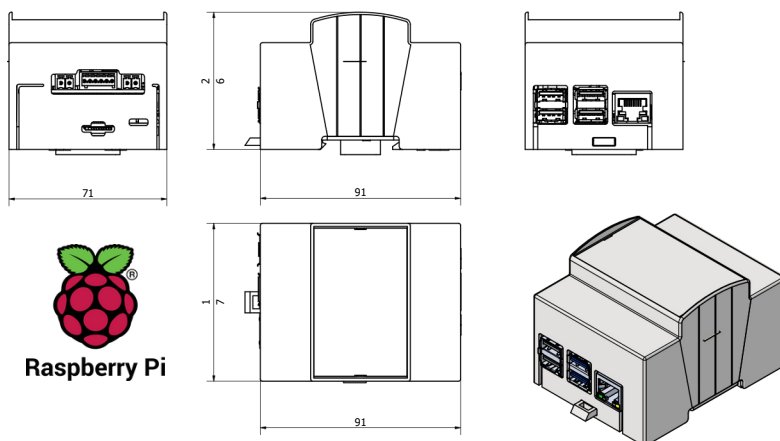
Power supply voltage	Screw terminal	12 to 24 Vdc
	I max USB	500 mA
Power consumption	DC power supply	20 W MIN 30 W MAX
Average input current		0.5 A
Dielectric strength		200 Vdc for 2 seconds
Shock resistance		50 m/s ² in the X, Y and Z direction 3 times each, complying with the IEC-60068-2-27:2008 standard.
Ambient temperature (operating)		0 ° to 60 °C
Ambient humidity (operating)		10 % to 90 % (no condensation)
Ambient environment (operating)		With no corrosive gas
Ambient temperature (storage)		-20 ° to 60 °C

Expansion Board Slot

Customize one additional communication expansion on your Gateberry:

- SARA-R412M-02B-03 4G LTE:**
 - Model:** SARA-R412M-02B-03
 - Type:** 2G EGPRS, GSM/4G LTE, M1/NB1 (Narrow-Band)
 - Key Features:** LTE FDD Bands (2/3/4/5/8/12/13/20/26/28), 2G Bands (850-1900MHz), LTE Category M1/NB1, GPRS Multi-slot class 33, EGPRS multi-slot class 33, etc.
- LoRa:**
 - Model:** RN2483 (for Europe/Asia), RN2903 (for NA/Australia)
 - Type:** LoRa
 - Key Features:** On-board LoRaWAN protocol stack, ASCII command interface over UART, Castellated SMT pads for easy PCB mounting, Device Firmware Upgrade (DFU) over UART, etc.
- LARA-R2 4G LTE-E :**
 - Model:** LARA-R2 series
 - Type:** LTE Cat 1 / 2G
 - Key features:** Supports LTE Cat 1 and 2G connectivity, High-speed data rates up to 10.3 Mbps (downlink) / 5.2 Mbps (uplink), Embedded TCP/UDP stack, IPv4/IPv6 dual-stack support, Embedded TLS 1.2 protocol for enhanced security, etc.
- CANBus:**
 - Model:** MCP2515
 - Type:** CAN V2.0B
 - Key Features:** Speed of up to 1 Mb/s, Receive buffer with masks and filters, High-speed SPI interface (10 MHz), Supports extended frame formats, etc.
- GPS:**
 - Model:** u-blox LEA-6S
 - Type:** GPS receiver module
 - Key Features:** Supports GPS L1 band (1575.42 MHz), High sensitivity with a cold start time of < 35s, Low power consumption, Built-in RTC for quick satellite acquisition, etc.

Overall device dimensions



Raspberry Pi 4 Pinout Connector

	NC	1	2	Vin	
SDA	GPIO 2	3	4	Vin	
SCL	GPIO 3	5	6	GND	
TX	GPIO 4	7	8	GPIO 14	D
	GND	9	10	GPIO 15	R
TERM_TX	GPIO 17	11	12	NC	
DE/RE	GPIO 27	13	14	GND	
	NC	15	16	GPIO 23	To Attiny
	NC	17	18	GPIO 24	From Attiny
MOSI	GPIO 10	19	20	NC	
MISO	GPIO 9	21	22	GPIO 25	INT
SCLK	GPIO 11	23	24	GPIO 8	CS
	GND	25	26	NC	
	NC	27	28	NC	
RX	GPIO 5	29	30	GND	
	NC	31	32	NC	
	NC	33	34	GND	
	NC	35	36	GPIO 16	AN
RST	GPIO 26	37	38	GPIO 20	PWM
	GND	39	40	GPIO 21	INT

I2C	RS-485	UPS	RTC	EXP BOARD
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USB Port Power Limit

The total power consumption of connected USB devices must not exceed 500 mA. At this limit, the USB voltage remains stable at 4.2V. The UPS board ensures a minimum supply voltage of 4.9V to the Raspberry Pi.



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