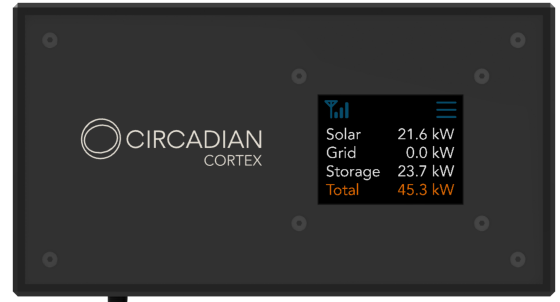


Decentralized Energy Intelligence

Our proprietary Linux-based edge computer captures data directly from up your power plant's equipment (PV Inverters, ESS, Genset Controllers, Meters, etc.) at 1s resolution, databases locally and then pushes to Circadian cloud every minute (configurable) over its integrated 2G/3G/4G modem and roaming SIM.

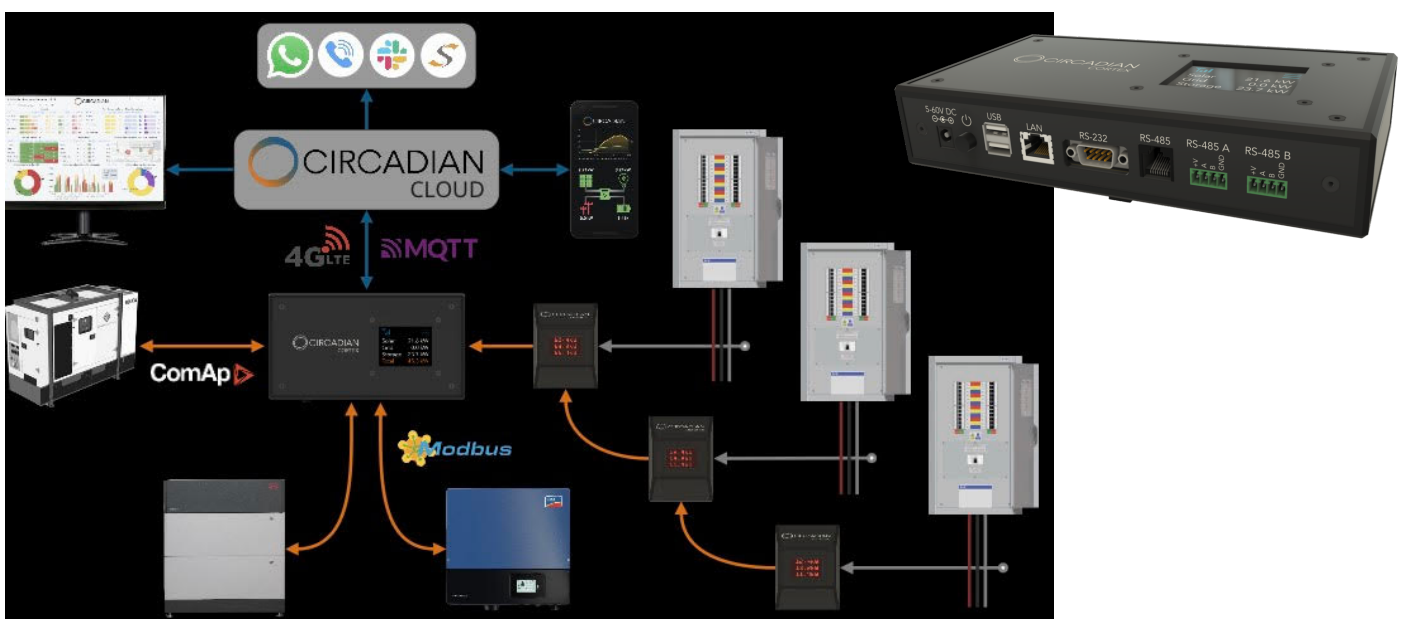


Manage Assets Smarter



Circadian Cloud empowers EPCs with live NOC functionality and active energy management but also actionable intelligence on site efficiency, battery health, and diesel theft, driving a competitive advantage. GSM bandwidth from Cortex is included in the monthly subscription.

How it works



Technical specifications

CHIPSET	588MHz MIPS Processor with 16GB eMMC Storage
OPERATING SYSTEM	Linux LEDE (Linux Embedded Development Environment) SQL Database Over the Air (OTA) Software Updates
CONNECTIVITY	Integrated Quad-band GPRS/3G/LTE Modem with SIM card and roaming MQTT data in 190 countries and across 600 carriers 802.11 b/g/n Wi-Fi with AP Mode Support 10/100/1000 Mbps Ethernet LAN
ANTENNAS	Internal: Dual GSM Antennas, WiFi Antenna (Optional External)
DATA CAPTURE	Polls information from 1s to 60s resolution (configurable) with GSM upload frequency defaulted at 5 min. Real-time fault and alert notifications.
I/O	7 Ports for Equipment and Sensors: 1 x Gb LAN with LED Indicators 1 x DB-9 RS-232 Serial Port 1 x RJ45 RS-485 Serial Port 2 x 4-Pin RS-48 Serial Port (Tx, Rx, Gnd, Pwr) 2 x USB 2.0
HMI	2.8" LED-backlight 64K Colour TFT resistive Touch Screen (320 x 240)
INPUT VOLTAGE	10-60V DC Input, 12V 2A AC Adapter Included, Typically 2.5W
STORAGE	2GB eMMC
RECORDING LENGTH	1 Minute Values > 1 Month, Hourly Values > 3 years
BATTERY BACK-UP	Internal Lithium Iron Phosphate Battery with 4.5Wh. 2 hours backup
AMBIENT TEMP	0°C to +70°C (without condensation)
DIMENSIONS(w x h x d)	218 x 118 x 41 mm
WEIGHT	273g
ENCLOSURE	PMMA Polymethylmethacrylate
MOUNTING	Top hat rails for DIN Mounting (TH 35 / 7.5) and Magnets for Temporary Installs
PROTECTION LEVEL	IP20
WARRANTY	3 Years

¹ GSM Data is included in Circadian Cloud's Lite, Standard, and Enterprise Monthly Software Subscriptions and is fixed for all countries.