



## LinkRay - EVSE Load Balancing Controller

LINKRAY sits between the charge station management system and charge points allowing on-site local control of charge points without interfering with back office control and billing



LINKRAY will seamlessly relay messages between the charge station management system and connected charge points, acting mostly as a transparent proxy. LINKRAY monitors OCPP messages that are relevant to charging limits, setting new limits when required. Since LINKRAY is on-site local to the chargers, it can be programmed to interface and respond to local energy systems adjusting charger outputs quickly and effectively.

LINKRAY interfaces to a local site power meter to dynamically balance EV charging rates based on local power availability. This function can continue with disconnection of the back office (CSMS).

LINKRAY is simple to install requiring only an OCPP 1.6 connection to chargers and back office. The LINKRAY is configured with the back office (CSMS) connection URL and the chargers are configured to connect to the LINKRAY. Once this is setup, normal operation will be established. Neither the back office nor the charge points need any extra software to work with LINKRAY.

LINKRAY can operate in mixed charging environments of DC and single and 3 phase AC chargers. Load balancing can be enabled on a per charger basis.

A built-in webpage allows control over how LINKRAY interacts with the chargers, enabling adjustment of charge profiles according to on-site energy demands proving a means for load balancing the system.

**Fast and reliable, LINKRAY brings seamless integration of on-site energy systems without sacrificing back office connectivity, control and billing**



## Technical specification

Supply Voltage	8-15V DC
Power Consumption	Nominal 2 Watt
Processor	High processing power, ARM applications processor with Flash storage and DDR memory
Security	Secure Boot TPM
Communication	On board LTE CAT M1 / GPRS modem 10/100Mbit RJ45 Ethernet connection 802.11b/g/n Wi-Fi 2.4 GHz
Input/Output	2 x RS485 Reset Button
kWh-meter interface	Modbus RS-485 connection to meter (contact Versinetic to see supported meters)
Mechanical Enclosure	DIN rail mounted
Workable temperature	-25 °C till +70 °C, 5% till 95%, non-condensing
Temperature Control	On-board temperature sensor on PCB
Back office connection	OCPP (JSON) 1.6 over Ethernet, Wi-Fi or LTE CAT-M1/GPRS
Updates	Remote firmware update (signed)



**Versinetic**  
versatile ev charging solutions

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