

**SBC**

# SBC FEATURES

## Management unit

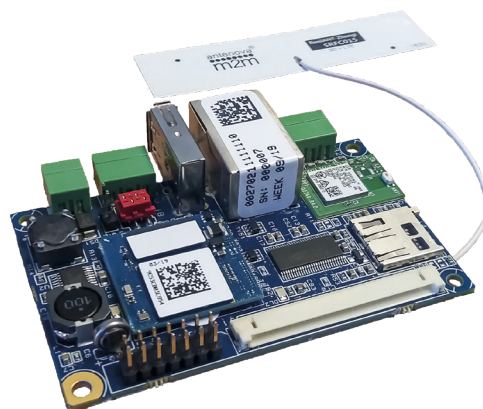
SBC is a board equipped with embedded software that allows you to connect all the charging points of the station.

The SBC manages the user database, the validation of the access credentials to the charging service, the conversation with external devices, the plug in power management (dynamic distribution of electricity delivered to the single outlet) up to

interfacing the charging station with a central station via the standard OCPP protocol.

SBC is a solution of great interest and with a lot of potential because, in addition to the minimum system characteristics required for the correct functioning of a vehicle charging station, it has a series of advantages deriving from its modularity, its power and its ability to expansion.

Through all the additional modules and all the interfacing protocols that the board manages, all the necessary functions required to manage a recharging point can be easily enclosed in a single device.



## Operating mode

### NET

The NET solution is specifically designed for adding connectivity to charging stations for use in private networks not open to the public. This is the typical case of use in car parks, condominiums and corporate circuits.

In this mode, the SBC manages all the credentials for using the systems in a special internal database and allows you to control and monitor the interfaced charging points simply by accessing the appropriate web interface on a browser from a PC connected to a local network (LAN). The software resident on the SBC allows the monitoring of the use of the service and the management of the charging station

### OCPP

Open Charge Point Protocol (OCPP) the open protocol adopted internationally for the connection of electric vehicle charging stations in the network.

OCPP is widespread in 50 countries around the world and is currently present on thousands of charging stations.

In Presa is currently the only Italian member of the Open Charge Alliance (OCA), a global consortium made up of leaders in the electric vehicle and infrastructure sector created to promote open standards including OCPP.

The SBC is OCPP compatible and can interface the entire station with the customer's central station to have total control of all recharging points.



# SPECIFICATIONS



## Technical specifications

Temperature	- 40 / + 85 ° C
Power supply voltage	12 to 36 Vdc
Maximum absorbed current	250 mA (+ 24Vdc)
Dimensions	80 x 50 x 18 mm (L x W x H)
Weight	100g (OEM)
Processor	MX 6ULL 800MHz
Mermora RAM	512 MB DDR3
NAND memory	512 MB
Memory	exp uSD slot (MAX 32GB)
Mobile	UMTS / 3G module
Connectivity	1x 10/100 ETH
Serial ports	2x RS232 (1 Linux console)
RS-485 ports	1x RS-485
Auxiliaries	GPIO, 1x CAN, 1x I2C, 1x UART
Average	1xUSB type A
Options	NTC, BT module, WiFi module



## Connections description

<b>J7</b>	Power connector
<b>J31</b>	RS-232 port
<b>J32</b>	RS485 port
<b>J9</b>	TCP / IP port

<b>J10</b>	Host port USB type A
<b>J4</b>	uSD slot exp
<b>J2</b>	Expansion connector
<b>J12</b>	Micro SIM slot

