RAEDIAN

NEX

Datasheet – SEMI PUBLIC CHARGING SOLUTIONS

www.raedian.com

1. General

Charging connector
IEC 62196 Type 2 cable 7.5m,
Type 2 socket,
Type 2 socket with shutter

Authentication methods
Plug & Charge
RFID
RAEDIAN APP via BLE
OCPP Backend

HMI & indication
Dual LED stripes

Display
OLED display with status indicator
and metering information

Nominal output voltage
Single phase: 230VAC ± 20%
Three phase: 230/400VAC ± 20%

Maximum output power
Single phase up to 7.4kW.
Three phase up to 22kW with
downgrade compatibility

Earthing system
TN/TT/IT

Protection
UVP, OVP, OCP, Relay Stuck, Over
Temperature

Residual current protection
At least Type A RCD upstream +
Integrated 6mA DC per IEC 62955

Nominal frequency
50/60Hz

Metering accuracy
MID Certified Class B
±1% Accuracy
Electrical Pulse output:
1000 imp/kWh
0.25-5(32)A

2. Connectivity

Vehicle communication
Mode 3 in accordance with IEC 61851-1
ed. 3 (2017)

RFID authentication
ISO/IEC 14443A/B, 13.56 MHz
Maximum length: 7 bytes

Connectivity to backend
Ethernet: RJ45*2, Daisy Chain
Wi-Fi: 2.4GHz, 802.11 b/g/n
4G: LTE CAT I, LTE-FDD:
B1/3/5/7/8/20/28

Backend protocol
OCPP 1.6 (JSON) 2nd edition

Connectivity to EMS/Meter
Modbus TCP via LAN, WLAN
Modbus RTU via RS-485

Connectivity to smart phone
Bluetooth

SIM card
Two SIM options:
- User SIM: Nano SIM, Settable APN
  user name and password
- eSIM: Integrated, activated by
  Lifetime Connectivity Key

3. Load Management Options

- Direct connection to CT Clamp for Dynamic Load Balancing;
- Connect to SC Kit for Dynamic Load Balancing and Solar Charging;
- Connect to external EMS as Modbus RTU secondary via RS-485;
- OCPP backend load management;
- Static load management setting in RAEDIAN APP, RAEDIAN Install APP.

4. Operating Conditions

Operating temperature
-30 ~ 55ºC with derating mechanism

Relative humidity
5% ~ 95%

Electrical safety class
Class I

Degree of protection (housing)
Charging core: IP55
Between charging core and
backplate: IP54
EtherBox: IP67

IK protection (mechanical impact)
IK10

Operating altitude
3000m

Standby Power
4.5W

Environmental conditions
Indoor / outdoor use

EMC Environmental conditions
Class B residential according to
IEC 61851-21-2

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5. Mechanical

Mounting options
Wall mounted
Pedestal

Material
Polycarbonate, UV resistant and
flame retardant, UL94 5VA
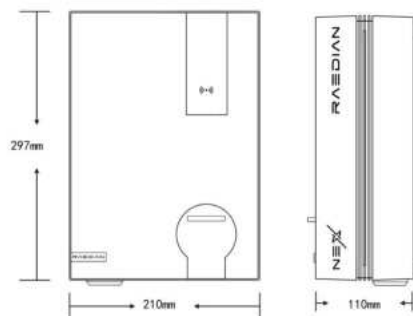
Casing (exterior) dimensions (H x W x D)
297 x 210 x 110 mm

Packaging dimensions (H x W x D)
450 x 360 x 230 mm (socket variant)
490 x 650 x 230 mm (cable variant)

Weight
4.7 - 7.7 kg

297mm
210mm
110mm

6. Compliance

Safety
EN 61851-1, EN 62955, EN 62196,
EN 61439

EMC
EN 61851-21-2:2021
EN 301489-1 V2.2.3:2019
EN 301489-3 V2.3.2:2023
EN 301489-17 V3.2.5:2022
EN 301489-52 V1.2.1:2021

RED
EN 300328 V2.2.2:2019
EN 300330 V2.1.1:2017
EN 301908-1 V15.1.1:2021
EN 301908-13 V13.2.1:2022

Health
EN 62311:2008
EN 50663:2017
EN 61000-6-2:2016
EN 61000-6-3:2006

RoHS
Directive 2011/65/EU &(EU)2015/863
Annex II

MID
EN 50470-3
EN 62053-23

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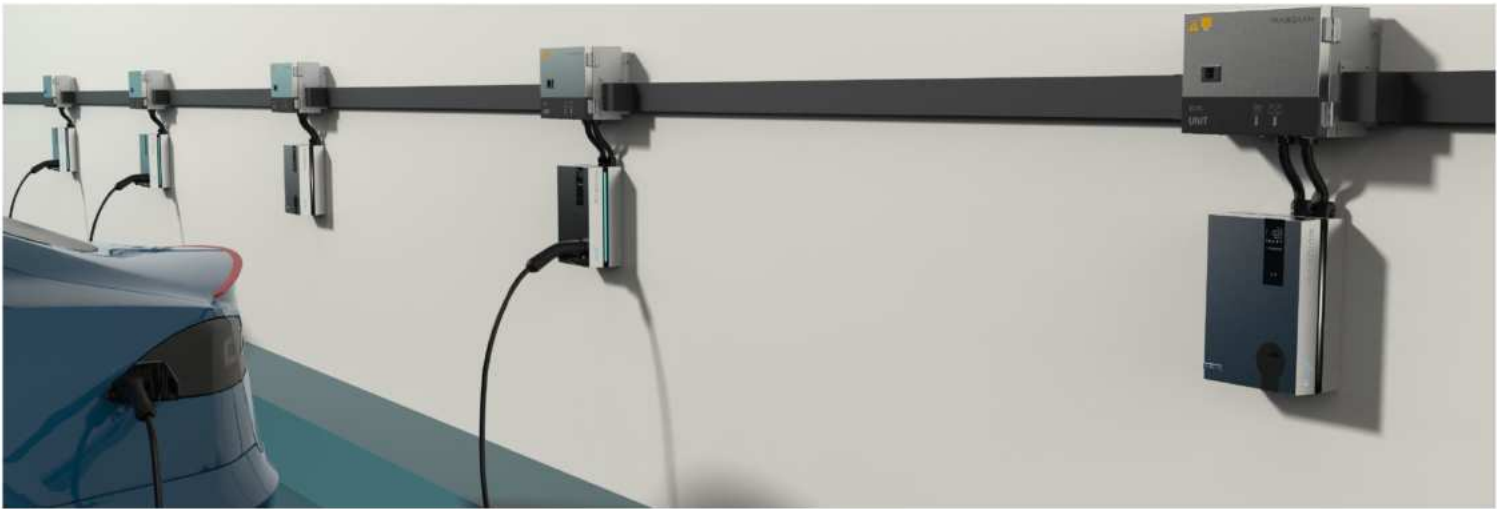
Available Colors

- 🔘 Metallic Silver
- ⚫ Space Grey
- ⚪ Lunar Light
- 🔴 Passion Red

Product Variants

4G+LAN+WiFi

Model	Part no.	Description
🗔 NEX 22-T7.5-ES-S-0000	9102000003433	22kW, Cable 7.5m, 4G with USIM/eSIM, Ethernetx2, WiFi, BLE, RFID, OLED, Silver
🗔 NEX 22-S-ES-S-0000	9102000003233	22kW, Socket, 4G with USIM/eSIM, Ethernetx2, WiFi, BLE, RFID, OLED, Silver
🗔 NEX 22-SS-ES-S-0000	9102000003333	22kW, Socket with shutter, 4G with USIM/eSIM, Ethernetx2, WiFi, BLE, RFID, OLED, Silver

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REMARK

1. All models listed are standard products. If you need products in other colors besides silver or have any customization needs, please feel free to contact RAEDIAN distributors or resellers.

2. The models marked with "🗔" are in stock in EU. For further information like MOQ or other details, please feel free to contact RAEDIAN distributors or resellers.

Accessories

Pedestal

Pedestal Model 1 for charging station mounting
Pedestal with roof, double side installation, cable hook

- Dimension(HxWxD): 1,600 x 300 x 200 mm
- Packaging(HxWxD): 1,610 x 360 x 210 mm
- Material: Aluminium Alloy
- Color: Black
- Weight: 11.6 kg
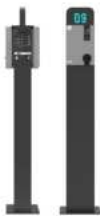
Part no. 9006000000111

Multi Color

Multi color housing, front cover and backplate

- ⚫ **Space Grey**   **Part no. 9028000000001**
- ⚪ **Lunar Light**   **Part no. 9028000000002**
- 🔴 **Passion Red**   **Part no. 9028000000006**

Pedestal

Pedestal Model 2 for Double NEX
Part no. 9006000010000

RFID Card

RFID Card, Business, 20 Cards
Part no. 9004000000001

ECPC Hub

ECPC HUB 80A	**Part no. 9023000000101**
ECPC HUB 160A	**Part no. 9023000000102**
ECPC HUB 250A	**Part no. 9023000000103**

Wall Bracket

Safe and secure installation on uneven surfaces

- Dimension(HxWxD): 338 x 205 x 11.5 mm
- Material: SPCC
- Weight: 0.82 kg

Part no. 9007000000001

ECPC Unit

ECPC Unit, 40A 1P, Type B	**Part no. 9025000000101**
ECPC Unit, 40A 3P, Type B	**Part no. 9025000000102**
ECPC Unit, 40A 1P, Type A	**Part no. 9025000000201**
ECPC Unit, 40A 3P, Type A	**Part no. 9025000000202**

Charging Cable

T2 to T2, 5m, 1-phase, up to 32A(7kW)	**Part no. 9022000001111**
T2 to T2, 7.5m, 1-phase, up to 32A(7kW)	**Part no. 9022000001211**
T2 to T2, 5m, 3-phases, up to 32A(22kW)	**Part no. 9022000003111**
T2 to T2, 7.5m, 3-phases, up to 32A(22kW)	**Part no. 9022000003211**
T2 to T1, 5m, 1-phase, up to 32A(7kW)	**Part no. 9022000001112**