

	<h2>CHIAN2GATE PLUG</h2>	<p>20/09/2023 Rel. 1.8</p>
<p><b>GENERAL INFO</b></p>	<p>Size: 24.5mm (L) x 79.5mm (H) x 81mm (D) (plug included)            Weight: almost 100g            Protection grade: IP40            Case: PC/ABS            Flammability: UL94-V0</p>	
<p><b>OPERATING CONDITION</b></p>	<p>Operating Temperature: 0°C ÷ +40°C            Storage Temperature -25°C ÷ +75°C            Humidity Percentage: 5% ÷ 95%            Altitude: &lt;= 2000 m            Overvoltage category: II            Pollution Degree: 2</p>	
<p><b>POWER SUPPLY</b></p>	<p>Voltage: 230Vac (-20/+15%)            Frequency: 50Hz            Insulation Class: II</p>	
<p><b>USER INTERFACE</b></p>	<p>LED: status visual indicator            - 5 LED lights (red, yellow, and green) as consumption visual indicators            - Wi-Fi application with white LED            - Tariff plan signaled with blue LED.            BUTTON: to link the device with the home network.            BUZZER: acoustic signal in case of exceed power or imminent interruption</p>	
<p><b>CONNECTION</b></p>	<p>Plug: Europlug IEC type C</p>	
<p><b>SHORT RANGE CONNECTIVITY</b></p>	<p>Wi-Fi: 802.11 b/g/n (802.11n up to 150 Mbps)            IoT Protocols: MQTT, WebSocket, REST            Cloud Security: Client Certificate on TLS            Bluetooth: Bluetooth v4.2            Antenna: integrated            Frequency: 2.4 GHz</p>	
<p><b>CHAIN 2 CONNECTIVITY</b></p>	<p>Modem C-Band, B-PSK Modulation            Application: DLMS/COSEM IEC (IEC 62056-5-3),            Data Model: COSEM Data Model (IEC 62056-6-1, IEC 62056-6-2)            Compliant with Italian Standard Chain2full: TS CEI 13-82:2020-04, TS CEI 13-83:2020-04, TS CEI 13-84:2020-04</p>	
<p><b>CERTIFICATIONS</b></p>	<p>CE Marking: RED DIRECTIVE 2014/53/UE            - Art. 3.1(a) – Safety: EN 62368-1            - Art. 3.1(a) – Health: EN 62311            - Art. 3.1(b) – EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 55035, ETSI EN 301 489 -1; ETSI EN 301 489-17            - Art. 3.2 – Radio: ETSI EN 300328</p>	<p>CE</p>

<b>APPLICATION SW</b>	<p>The Chain2Gate family of devices is based on the <b>JCD Peer to Peer IOT Protocol Architecture</b>. JCD is a message-oriented architecture in Json format for Peer To Peer communication on local and Cloud networks based on MQTT or WebSocket transport.</p> <p>The JCD architecture is also supported by the <b>UCD Universal Cloud Downloader (Update FOTA)</b> technology. UCD is a Cloud Architecture for the notification and distribution of new release files or software modules. The Universal Cloud Downloader service allows the firmware update of the devices remotely through a Cloud connection even if installed and operational in the field. The architecture supports forwarding the <b>Cloud Certificates Upgrade for downloading certificates</b>. The connection configuration to the MQTT broker is activated in a secure and authenticated way by exploiting the use of Server and Client certificates, as also required by the AWS IOT platform.</p>
<b>MANUFACTURER</b>	<p>The CHAIN2GATE PLUG is produced and distributed by MAC srl. Via XX Settembre, 23 62019 Recanati (MC) – Italy</p>