
	<h2 style="text-align: center;">CHAIN2GATE PLUG</h2>	<p style="text-align: right;">13/12/2023 Rel 1.9</p>
<p>GENERAL INFO</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>OPERATING CONDITION</p>	<p>Operating Temperature: 0°C ÷ +40°C Storage Temperature -25°C ÷ +75°C Humidity Percentage: 5% ÷ 95% Altitude: <= 2000 m Overvoltage category: II Pollution Degree: 2 Insulation Class: II</p>	
<p>POWER SUPPLY</p>	<p>Voltage: 230Vac (-20/+15%) Frequency: 50Hz Consumption: 25 mA</p>	
<p>USER INTERFACE</p>	<p>LED: status visual indicator</p> <ul style="list-style-type: none"> • 5 LED lights (red, yellow, and green) as consumption visual indicators • 1 white LED to Wi-Fi application • 1 blue LED to signaled the Tariff plan <p>BUTTON: to link the device with the home network. BUZZER: acoustic signal in case of exceed power or imminent interruption</p>	
<p>CONNECTION</p>	<p>Plug: Europlug IEC type C</p>	
<p>SHORT RANGE CONNECTIVITY</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>CHAIN2 CONNECTIVITY</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>CERTIFICATIONS</p>	<p>CE Marking: RED DIRECTIVE 2014/53/UE</p> <ul style="list-style-type: none"> • 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>APPLICATION SW</p>	<p>The Chain2Gate family of devices is based on the JCD Peer to Peer IOT Protocol Architecture. 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 UCD Universal Cloud Downloader (Update FOTA) technology. UCD is a Cloud Architecture for the notification and distribution of new release files or software modules.</p> <p>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.</p>	

CHAIN2GATE

ENERGY AWARE

	The architecture supports forwarding the Cloud Certificates Upgrade for downloading certificates. 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.
MANUFACTURER	The Chain2gate Plug is produced and distributed by MAC srl. Via XX Settembre, 23 62019 Recanati (MC) – Italy