CHAIN2GATE
ENERGY AWARE PLATFORM

	CHIAN2GATE DIN	12/10/2023 Rel. 2.0

GENERAL INFO	Size: 36.3 mm (L) x 90.5 mm (H) x 62 mm (D) (2 DIN Modules) Weight: 120g Protection grade: IP20 Flammability: UL94-V0 Case: PC/ABS
OPERATING CONDITION	INDOOR USE Operating Temperature: -20 °C ÷ +50 °C Storage Temperature: -30 °C ÷ +70 °C Humidity Percentage: 5% ÷ 95% Altitude: <= 2000 m Over voltage category: II Pollution Degree: 2 Insulation Class: II
POWER SUPPLY	Voltage: 230Vac Operating voltage range: -20%/+15% of the nominal voltage Frequency: 50Hz Consumption: 50 mA
USER INTERFACE	LED: status visual indicator (red) BUTTON: Starting Configuration and reset
CONNECTION	Screw terminal: 2 poles (Line, Neutral) Wire section (min ÷ max): 0.5 -2.5 mm2
SHORT RANGE CONNECTIVITY	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 v5.0 Antenna: integrated Frequency: 2.4 GHz
CHAIN 2 CONNECTIVITY	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
CERTIFICATIONS	CE Marking: CE 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

APPLICATION SW	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.
	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. 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 **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 DIN is produced and distributed by MAC srl. Via XX Settembre, 23 62019 Recanati (MC) – Italy