



INDUSTRIAL EDGE · PRODUCT BRIEF

DC3 Industrial Edge Gateway

Cellular · Wi-Fi · G3-PLC · Modbus TCP/IP — every interface on one DIN-rail device.

Rev A · August 2026 | **Category:** Industrial Edge | **Interface:** Cellular / Wi-Fi / G3-PLC / Modbus

4 255 80–480V 3.75 kV

OVERVIEW

The DC3 bridges legacy industrial devices to modern cloud platforms over any available medium — cellular, Wi-Fi, G3-PLC power-line mesh, or Modbus TCP/IP. It powers directly from the AC line (80–480 VAC, 15 VA), mounts on a standard 35 mm DIN rail, and connects to ARG Cloud via MQTT with no network infrastructure required.

The DC3 is designed for installations where network access is unreliable, power infrastructure is industrial, and backwards-compatibility with Modbus RTU/TCP is non-negotiable.

Powers from 80–480 VAC. Connects to ARG Cloud, on-premises SCADA, and BMS systems out of the box.

TECHNICAL SPECIFICATIONS

Power Input	80–480 VAC, 50/60 Hz, 15 VA max
Isolation	3.75 kVAC galvanic isolation
Cellular	LTE Cat-4 (4G), embedded eSIM + nano-SIM slot; ARG Cloud MQTT preconfigured
Wi-Fi	802.11 b/g/n, 2.4 GHz
G3-PLC	ITU-T G.9903 (CENELEC-B & FCC bands); 255 nodes/cluster; ~3 mile range over existing wiring
Modbus	Modbus RTU (RS-485) master/slave + Modbus TCP/IP via Ethernet 10/100
Ethernet	10/100 BASE-T, RJ-45
Cloud Connectivity	MQTT to ARG Cloud; also supports on-premises MQTT broker and SCADA/BMS integration
Operating Temperature	–40 °C to +75 °C
Enclosure Rating	IP40
Mounting	35 mm DIN rail
Standards	ITU-T G.9903, IEEE 802.11b/g/n, Modbus Application Protocol V1.1b3

KEY CAPABILITIES

Cellular LTE / 4G + eSIM. Embedded eSIM + nano-SIM slot. LTE Cat-4 with automatic fallback. No SIM card provisioning required for ARG Cloud deployments.

Wi-Fi 802.11 b/g/n. 2.4 GHz 802.11 b/g/n. Connects to existing facility Wi-Fi or operates as a standalone AP for local device access.

G3-PLC Power-Line Mesh. ITU-T G.9903 — CENELEC-B (Europe) & FCC (North America) bands. Up to 255 nodes per cluster, 3-mile range over existing AC wiring. No new cabling required.

Modbus RTU & TCP/IP. RS-485 Modbus RTU master/slave and Modbus TCP/IP over Ethernet. Bridges legacy field devices to ARG Cloud or SCADA systems.

ARG Cloud (MQTT). Preconfigured MQTT to ARG Cloud portal. Remote monitoring, OTA firmware updates, configurable polling intervals, and alerts.

Industrial Power Input. 80–480 VAC line powered, 15 VA. 3.75 kVAC galvanic isolation. IP40 enclosure. –40 to +75 °C.

FROM THE PANEL TO THE CLOUD.

Industrial Automation. Aggregate Modbus RTU devices — PLCs, drives, sensors — and forward data to SCADA, MES, or ARG Cloud over cellular or Ethernet.

Building Automation. Retrofit G3-PLC mesh into commercial buildings over existing wiring. Monitor energy, HVAC, and access control with no new cable runs.

Smart Grid / Utility. Deploy a G3-PLC network across a distribution feeder. 255 nodes per cluster, up to 3 miles range, with ARG Cloud backhaul via cellular.

Remote & Harsh Sites. IP40 rated, –40 to +75 °C operation. Powers from the local AC panel. Cellular backhaul where Ethernet is unavailable.