



REDNEURONLAB



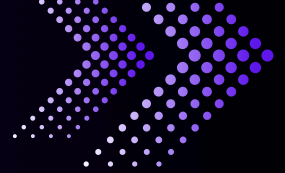
BHARAT GATEWAY PRO

INDUSTRIAL IoT GATEWAY

Experience next-generation industrial connectivity with Bharat Gateway Pro. Featuring LTE Cat 1, Dual-MCU architecture, Wi-Fi, Bluetooth LE, and GNSS, it enables secure, reliable, and low-latency communication for remote monitoring and automation. Ideal for CNC machines, chillers, compressors, security systems, and Industrial IoT applications.

HiveProvisioner Compatible

[MANAGEMENT | ALERTS | CONFIGURATION
| REMOTE ACCESS | FOTA]



KEY FEATURES

HARDWARE

Mobile	LTE Cat 1 (10 Mbps DL / 5 Mbps UL) + 2G GSM/GPRS Fallback
CPU	Quectel EC200UCN + ESP32-S3-WROOM-1 (Dual MCU)
Storage	128 MB SPI NAND Flash
SIM	1 × Mini SIM (2FF)
Antenna connectors	3 × U.FL Connectors (LTE, GNSS, Wi-Fi/BLE)
Wireless	Wi-Fi 2.4 GHz + Bluetooth LE 5
GNSS	GPS / BDS / GLONASS / Galile
EC/Digital Inputs	18 × Level Shifted DI And Pluggable AC Input
Analog Inputs	12 × Analog Inputs (1.7V & 3.2V) Pluggable AC Input
RS485	Half Duplex Modbus RTU
Power Input	DC Barrel + 2 Pin Terminal Block
Protection	TVS Surge & Reverse Polarity Protection
Operating temperature	40 °C to 85 °C
Mounting	DIN 3 Compatible Rail
Dimensions(W x H x D)	152.1 × 91.4 × 4.5 mm
Weight	200gm

SOFTWARE

Operating system	Quec-Open RTOS
Protocols	MQTT • HTTPS • Modbus RTU
Device Management	HiveProvisioner (RMS)
Security	Authentication • SSL/TLS v1.2 • Firewall • Access Control
Cloud Platforms	AWS IoT Core • Azure IoT • ThingsWorks
Remote Updates	OTA Firmware Updates
Diagnostics	Connection Monitoring & Diagnostics



User Journey

1. Plug in Power supply (9 - 24 v Input)
2. Check NET_MODE Led is blinking ? [Yes, Wait for 5 Minutes]
3. Login to Hive Provisioner
4. Add Device by entering IMEI
5. Your Machine is Live

