





### SIMPLIFIED DISTRIBUTED DATA COLLECTION

The micro-Radix IoT appliance allows for cloud data collection and enterprise edge connectivity for OEM applications or smaller critical facilities that require mass data aggregation. The unit allows for simple integration into DIN rail enclosures or can optionally be wall mounted. The micro-Radix IoT appliance allows onboarding into the Radix IoT Platform of products or systems desiring remote management or monitoring. The unit is a perfect solution for intelligent energy metering, retail property automation, oil and gas applications, or remote un-staffed site monitoring.

The micro-Radix sports a low power Intel® Celeron® processor N3350 1.5 GHz dual-core processor with 8GB system memory; delivering high performance and low power consumption for mass data acquisition needs. The unit offers complete digital and analog connectivity options to individual sub-systems via:

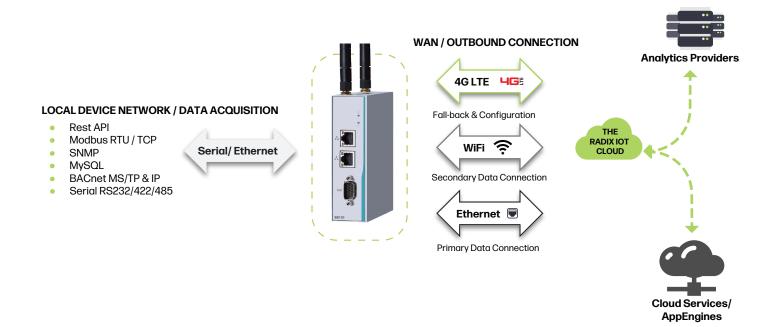
- Two Gigabit LAN/WAN ports
- Programmable Digital IO Port
- Configurable serial support (RS-232/422/485 ports)
- Two USB 2.0 ports

The micro-Radix is simple to deploy and provision. Wire-up the devices to be monitored, connect an Outbound Ethernet connection (or optionally Wifi or Cellular) and apply power. All setup can be performed within the Radix IoT Cloud Platform remotely. The unit allows native connectivity to BacNet/IP, BacNetMS/TP, MQTT, Modbus RTU/TCP, Serial, and over 100 other protocols to harvest data. The Radix IoT Cloud Platform consolidates, tags, and formats all the Radix IoT harvested data into a single source API allowing remote analytics and visualization platforms to access the entire data-collection from a single API.

The unit can be DIN rail mounted taking up only a profile of only 1-1/4" width, or wall-mounted with an optional wall mount adapter. Power is supplied via a 12-24VDC terminal connection. Additionally, the unit holds an IP40 rating with a high-temperature threshold, and fanless design making it perfect for housing directly in sealed equipment or electrical cabinets.



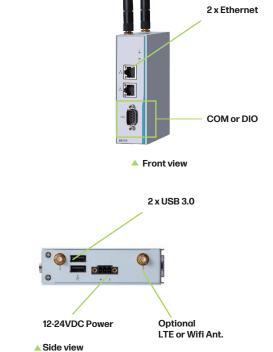




#### **FEATURES AT A GLANCE**

# Facility data consolidated, organized, and accessible with the simplicity of Radix IoT

- Solid State (Fanless) Industrial Design for long service life
- User selectable Serial or DIO Port
- Double redundant outbound / back-haul data connections
- 12/24VDC Powered
- Simple Cloud based on-boarding and configuration
- Protocol support for prevailing building systems and protocols
- Unified API support from the Radix IoT Cloud with a Single Source API
- Simple connectivity Azure IOT, Google Cloud IOT, AWS IOT
- Local storage options for data caching
- Low profile design for integrated electrical cabinet











### **SPECIFICATIONS**

Color	Silver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3350 (1.1 GHz/2-core)	
Part number	BB120	
System Memory	8GB	
BIOS	AMI UEFI BIOS	
I/O	Serial Port	1x RS-232/422/485 (COM) with DB9 Connectors Native Protocols: BacNetMS/TP, ModBus RTU See www.radixiot.com for further serial protocol options Supports Auto Flow Control in RS-485 mode
	USB	2 x USB 2.0
	RTC	Battery on-board
	Local Storage	Standard: SSD 400GB - mSATA
	LAN Ethernet Ports	1 x 10/100/1000 Mbps Ethernet (WAN - Cloud Service Connection) 1 x 10/100/1000 Mbps Ethernet (LAN - Local Device Network)
	Power Input	DC terminal block: 12 - 24VDC Input
	Wireless	^ 802.11a/g Wi-fi ^ 4G/LTE - Single SIM Card Support for 4G/LTE Networks
	DIO	1x DI/DO (8-Bit Programmable Female Connector DB9 TTL - 5V External isolation required DIO programming operation: - I/O sink current 10mA - Individual Input/Output programming
	Options	AB BBWN - Integral Wifi ABBCN - Integral 4G/LTE Modem (Service Required) BB130WM - Wall Mount Adapter
		rtional add-on feature y not be concurrently installed

Integral Watchdog	Timer based: 255 levels, 1 to 255 sec.		
System Indicator	Power, active		
Power Supply	Power Input Range: 12 ~ 24 VDC		
	Power Input Rating: 12 ~ 24 VDC, 1.39A ~ 0.72A		
	Power Protection: DC Version with Over Voltage Protection +20% Reverse polarity protection		
Operating Temperature	-20°C ~ +70°C (-4°F ~ +158°F)		
Humidity	10% ~ 95%		
Vibration Endurance	2 Gms (5 ~ 500Hz, amplitude 0.35 mm; operation/storage/ Transport)		
Weight	0.3 kg (0.67 lb)/0.46 kg (1 lb)		
Certificate	CE, FCC Class A		
Dimensions	31 mm (1.22") (W) x 100 mm (3.93") (D) x 125 mm (4.92") (H)		
Mounting	DIN-rail, wall mount		
OS Support	BBOS / Ubuntu		
Remote Software	Radix IoT Cloud Platform		





## **DIMENSIONS**

