

KETRON TECHNOLOGIES

INDUSTRIAL EDGE COMPUTING SPECIFICATION SHEET

System Comparison Matrix

Comparative evaluation of Ketron Industrial Edge Servers against conventional data-center rack servers in mission-critical and harsh operating environments.

FEATURE	KETRON INDUSTRIAL EDGE SERVER	CONVENTIONAL RACK SERVER
Cooling	Fanless Passive Cooling	Active High-CFM Fans
Form Factor	Compact / Ultra-Small Footprint	Standard 1U/2U/4U Rack-Mounted
Industrial Environment	Designed for Extreme Conditions	Primarily Data Center / Office
Local Deployment	Excellent (Edge-Ready)	Usually Centralized
Remote Deployment	Excellent (Zero-Maintenance Focus)	Less Convenient / Needs Infrastructure
Moving Parts	Minimal / Zero Mechanical Parts	Multiple Cooling Fans & Drives
Acoustic Noise	Very Low / Silent Operation	Higher (Fan Noise)
Edge AI Capabilities	Yes (Integrated Accelerators)	Configuration Dependent
Power Requirements	Low Power Consumption	Higher Power Draw
Local Storage	Expandable High-Reliability SSD	High Capacity Array

KEY ENGINEERING ADVANTAGE

Ketron Industrial Edge Servers eliminate single points of failure (like cooling fans and spinning media), allowing continuous 24/7 deployment in high-dust, extreme-temperature, and vibration-heavy environments where traditional rack servers fail.