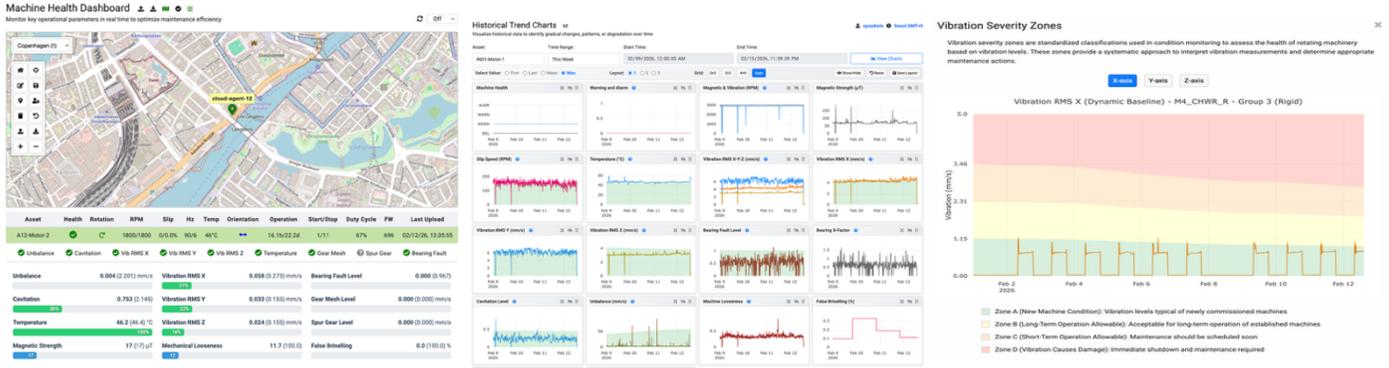# EWA Cloud and Agent
Early Warning Condition Monitoring Platform

EWA Cloud & Agent provide a flexible monitoring ecosystem designed to visualize and manage machine health data from EWA sensors across your facility. The platform enables centralized supervision — whether in the cloud for remote accessibility or on-premises for local control — supporting scalable deployment across industrial sites.

EWA Cloud *Cloud-Based Monitoring*	Cloud-Agent M1s *Edge-to-Cloud Gateway*	Agent M2 *Local Monitoring (On-Premises)*
✓ Real-time dashboards across all sites	✓ Local sensor data collection	✓ Full local visualization via web UI
✓ Historical trend & root-cause analysis	✓ Secure upload to EWA Cloud	✓ Local trending — no cloud needed
✓ Geo-mapping for multi-site operations	✓ Remote firmware update	✓ Advanced on-site analytics
✓ Color-coded alerts & event logging	✓ Plug-and-play installation	✓ Ideal for restricted environments
✓ CSV export & 180-day data retention	✓ Optional Wi-Fi & 4G LTE	✓ Modbus RTU/TCP read/write support
✓ Multi-tenant role-based access control	✓ Reliable edge-to-cloud pipeline	✓ Built-in MQTT broker & client

HARDWARE SPECIFICATIONS

SPECIFICATION	GATEWAY M1s	GATEWAY M2
Processor	RK3566 Quad-Core A55 @ 1.8 GHz	RK3588S2 Quad-Core A76 @ 2.3 GHz
Memory	4 GB LPDDR4	8 GB LPDDR5
Storage	64 GB eMMC	64 GB eMMC
Connectivity	GbE	Wi-Fi	4G LTE	GbE	Wi-Fi	4G LTE
Installation	Plug-and-play	Plug-and-play

DEPLOYMENT OPTIONS

DEPLOYMENT	CONNECTIVITY	PRIMARY USE CASE
EWA Cloud	Internet	Remote monitoring & enterprise dashboards
Cloud-Agent (M1s)	Edge to Cloud	Local edge data collection + cloud upload
Agent (M2)	Local Network (On-Premises)	No cloud dependency, robust local analytics

WHY EWA CLOUD & AGENT?

✓ **Unified Monitoring**	✓ **Flexible Deployment**	✓ **Scalable & Secure**
Real-time data, trends & alerts in one centralized view	Cloud, hybrid, or fully on-premises — your infrastructure, your choice	Multi-tenant architecture & role-based permissions at scale