

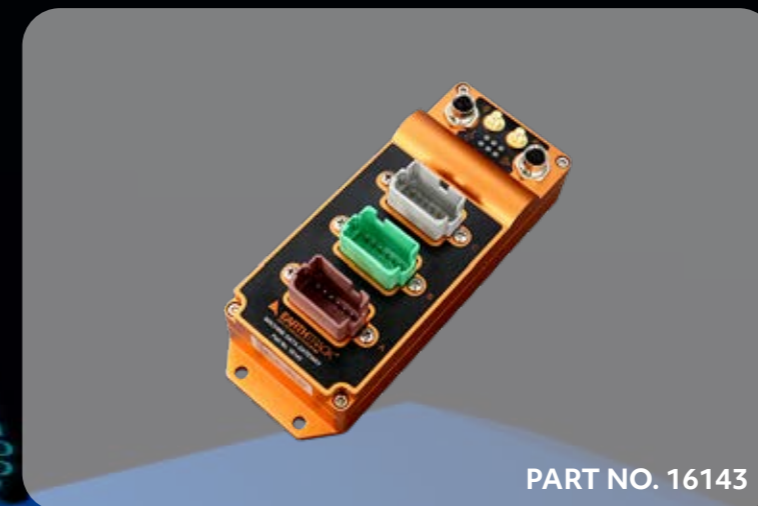
MACHINE DATA GATEWAY

Unlock data and information from
any machine, anywhere

Unique, state-of-the-art device that **unlocks, gathers,** and **collates data** to a singular cloud-base.

Businesses from any industry worldwide can significantly optimise their operations as the MDG will unify access to all forms of raw data being produced by the fleet.

The raw data can be collected across all machines such as trucks, loaders, rock breakers and light vehicles – regardless of age, make or model.





Get total liberty to access unlimited raw data

Collation and preparation of data

The challenge has always been the collection of the broad spectrum of data being generated by machines. This is now no longer the case with the MDG system.

It collates all the data from multiple sources to a single location, in which RCT can harness and deliver this raw data in several ways such as site server and API.

The raw data retrieved and prepared by the MDG is the all-important first step in the data processing cycle.

Once stored, operations can leverage on this and have endless choices available to analyse data by uploading to its own business analytics software for actionable insights and explore opportunities across all aspects of the machine operation.

Any network

The MDG creates its own meshed network, meaning it is ideal for applications where network communications between machines and cloud services are fragmented.

This means vital information is not missed at times where communications drop out on site. It is also equally suited to applications with more permanent network infrastructure in order to safeguard the retainment of important information for business analytics.

As the MDG collects, stores and transfers data between each piece of equipment, this minimises the need to install expensive communications infrastructures.

No OEM restrictions

Original Equipment Manufacturers (OEM) can ultimately decide what data customers are provided, whereas the MDG unlocks and provides full unrestricted access to data.

No matter what brand of machine fleet or third-party system your operation has, data is delivered in a consolidated format, facilitating a big picture view of how your operation is running to forecast and pinpoint bottlenecks.

Unleash your data to harness valuable information

Machine Data Gateway is a tool to provide the total freedom to access unlimited raw data.

Businesses can get deeper insights how to enhance fleet operations in the long term to ultimately improve bottom lines.

- ✓ **Cloud**
 Collate data from multiple sources to a single location
- ✓ **Insights**
 Leverage insights to explore opportunities across all aspects of the machine operations
- ✓ **Alerts**
 Alerts convey information related to the state of your machine
- ✓ **Agnostics**
 Works with any brand of machine fleet or third-party system
- ✓ **Network**
 Self-owned meshed network, means vital information is never missed
- ✓ **Freedom**
 Unlock full unrestricted OEM data



We create intelligent technology solutions for **better insights** and **informed decision making** to achieve your business goals.

	☑	👤	📶	🔗
FEATURES & FUNCTIONS	DIGITAL CHECKLIST	PAYLOAD MANAGEMENT	VEHICLE MONITORING	MACHINE DATA GATEWAY
Pre-start checklist (w/lockout) and in-cab display	✓	✓	✓	
Operator ID/access and service due	✓		✓	
GSM/LTE & Wi-Fi	✓		✓	✓
API - via SQL database, email reporting and data export (.csv)	✓	✓	✓	✓
Cloud based historian (ONLY)	✓		✓	
Cloud based, onsite historian (database) and customer owned server				✓
Payload too high/low, payload weight and payload placement		✓		✓
Utilisation, key on/off, excess idle, impact and seatbelt monitoring, engine and vehicle overspeed, geo-zoned speed threshold, engine oil pressure and temperature, coolant level, and travel distance			✓	✓
Cycle time, low/high idle and machine moving			✓	✓
Maintenance process ¹				✓
Production process ²				✓

¹ Including; gear selection, harsh braking low hydraulic oil level tray up/down bucket up/down water tank level low fuel low park brake on/off, remote, teleremote and automation on/off, travel time, site/production area, trip start time, trip end time, trip geolocation (if GPS is available), trip distance, maximum engine speed, average trip, engine speed alert (with timestamp), count of engine speed, alerts average trip, ground speed alert (with timestamp), and count of ground speed alerts
² Including; check engine status (with timestamp), cycle start time, cycle-id, total cycle time, total cycle distance, dump point, ID draw point ID bucket weight (if sensor fitted) estimated bucket weight, CAN BUS J1939, CAN-BUS open and OEM i.e. CAT. Machine specific customisation and customer-specific customisation



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