

## Parijat Industrial Data Logger, Historian – NGS-061

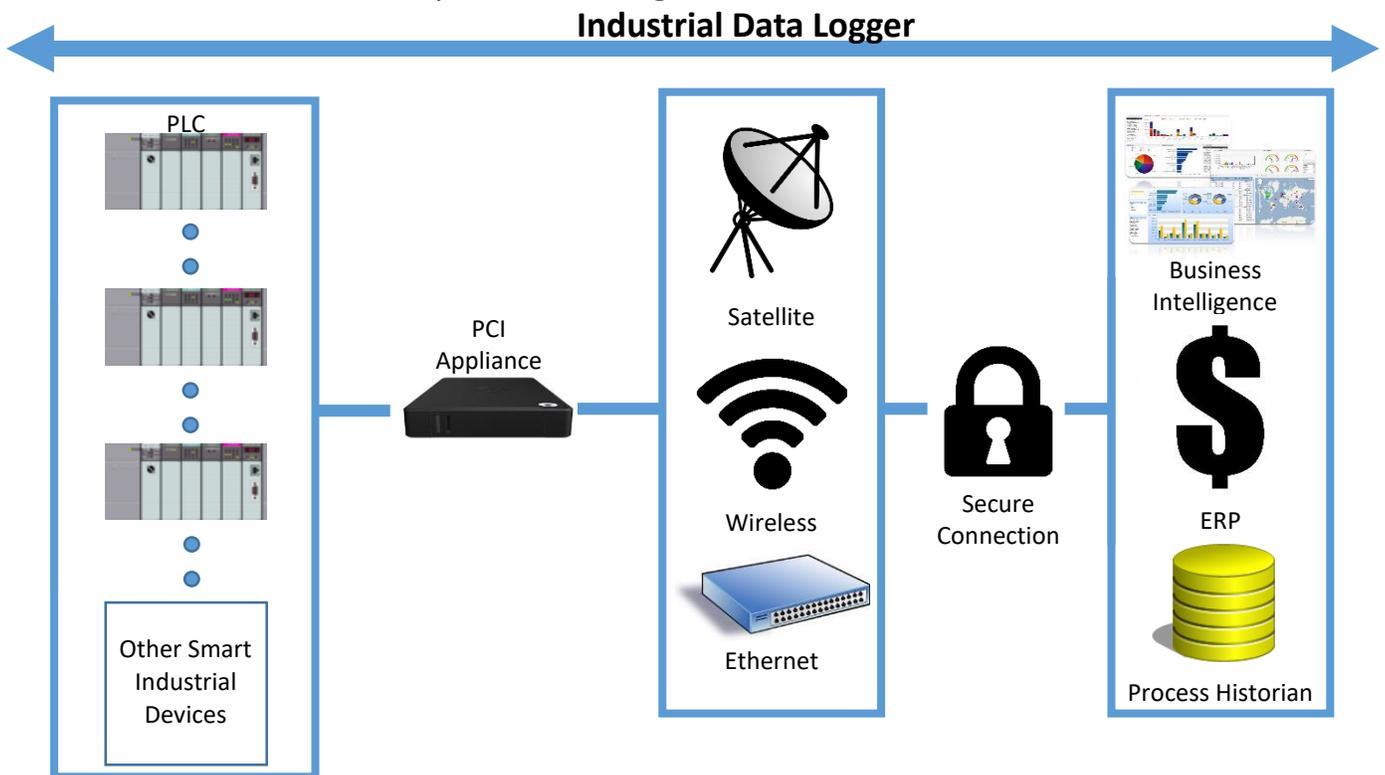
Parijat Industrial Data Logger & Historian or NGS-061 collects data from industrial smart device assets and control systems, buffers it locally to ensure no data loss and forwards it to a central place for long term archiving. This is designed for scenarios where the sources of data are distributed far away geographically & the interconnection with the central server is not reliable or is bandwidth limited.

### Achievements:

- visibility into equipment or process conditions
- the freedom to view complete, up-to-date historical data
- access to data locally or remotely
- open Microsoft standards based system to future proof architectures
- capture data for regulatory purposes reliably

### Key benefits:

- Selective, event based data collection
- Low bandwidth requirements
- Data integrity and confidentiality enforced via data encryption
- Reliable data delivery based on intelligent, loss free historical data transfer





### **Universal Device Connectivity**

NGS-061 connects to third party devices regardless of what vendor they are from. With support for multiple data connectivity protocols, it easily communicates with legacy and modern data sources alike.

### **Assured Data Delivery**

NGS-061 continually buffers, collects & stores data so no data is lost when network connectivity is lost with the central data repository. When network connectivity is restored, NGS-061 resumes forwarding archived data to the central repository starting from the time when the connection was lost. Data Logger sends the data in chunks and only deletes its local copy when it verifies the data was received on the other side.

### **Direct Historian or Database Connectivity**

NGS-061 delivers data directly to a central repository. MS SQL Server is used for data repository by default. Standard databases, such as Oracle, MySQL etc. are supported via ADO.NET, ODBC. Other proprietary process historians, such as, OSI PI, Aspen's IP.21, Wonderware InSQL/Intouch, GE iHistorian, Honeywell plant historian and many more are supported via a middleware, OPC or API.

### **Secure Access Control**

Data Logger is fully secured from an administrative perspective & include:

- Application white listing used to restrict what application can run
- All ports are secured
- User access is fully controlled via MS Active Directory & other means

NGS-061 is a large-volume plant data historian to connect a high-speed data acquisition and storage system with a traditional relational database management system, MS SQL Server facilitating easy access to plant data using open database standards. Support & extensions to NoSQL type contemporary database structures is underway.

Complete and accurate plant data recording enables personnel to execute plant performance optimization & improvement opportunities. NGS-061 provides flexibility, configurable scalability, and high reliability. Design simple single node Historical systems, multi-tiered systems aggregating summary data in tier one Historians to tier two Historians, or even design multi-tiered redundant systems for disaster recovery capable of continuous data collection and no loss of data even when a server or entire facility is lost. Use MS SQL Analysis services or MS Azure data analytics.

Plant personnel can quickly retrieve key information and immediately apply corrective actions to improve plant productivity. Automatic corrections may be invoked. Advanced data retrieval tools help reduce the time needed to create database queries — conserving valuable plant IT resources. NGS-061 provides vital real-time and historical information that personnel need to streamline operations, gain visibility to trends, and reduce costs. NGS-061 serves the needs of operations, engineering, quality, maintenance and other functional groups. Use queries and tools designed to optimize the retrieval of time-series information from the database to answer the questions most relevant to the process.



## Features

- Combine front-end, high-speed data collection with time series extensions to Microsoft SQL Server relational database to optimize both storage and retrieval performance.
- Fully integrates event, summary and production data along with database configuration information.
- Distributed and Tiered architectures for more reliable, high speed data acquisition, optimized storage and lower administration costs
- Powerful performance management tools for KPIs, process graphics, trending, reporting, downtime analysis, production and SPC
- Built-in Microsoft SQL Server Reporting Services for easy report creation and management
- Designed to support slow and/or intermittent data networks
- FDA 21CFR Part 11-ready for regulated industries

**Option:** Buy with an Industrial hardened hardware

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wonderware, Matrikon