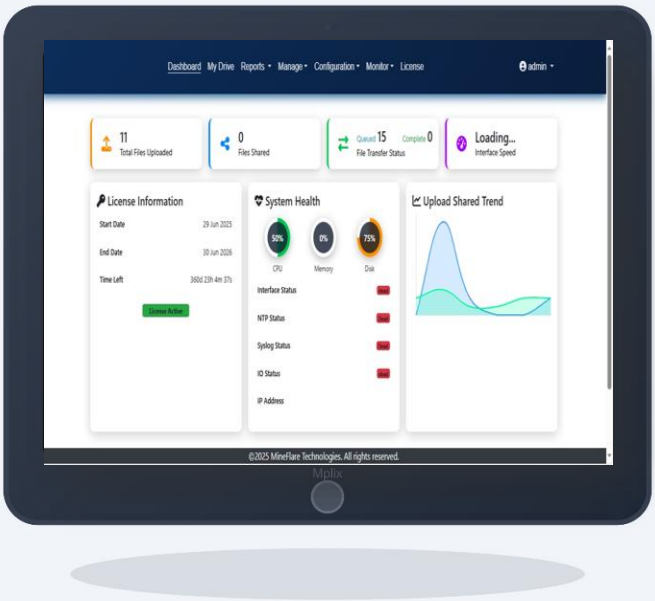
MPLiX
Solution India

DataPlix

Simplex your data

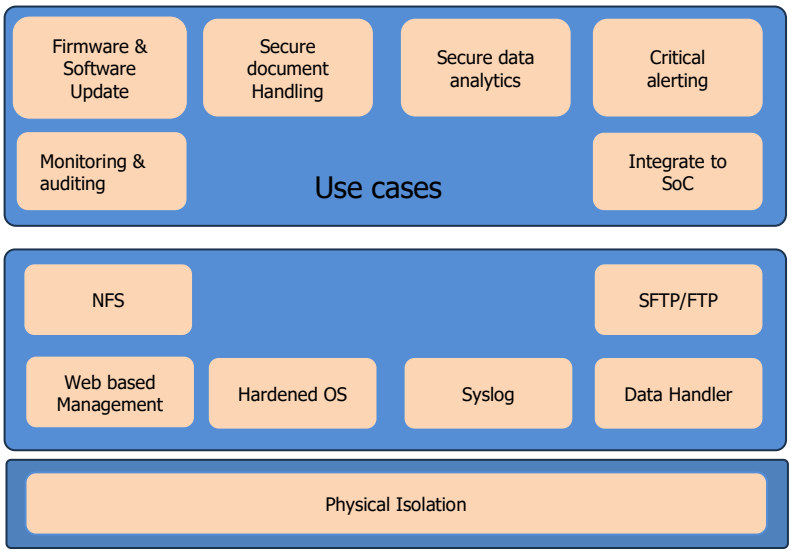


Highlights

- Secured gateway hardware enforced unidirectional data flow design
- Plug and play ready to deploy in air gapped network, no extra server or software required.
- High Throughput
- User-friendly configuration via GUI
- HTTP/S, FTP, SFTP, SMB, NFS, NTP protocol support
- Support for Diverse Data
- Low maintenance

Where Critical Networks Stay Connected—and Resilient

DataPlix Platform is engineered to be the trusted backbone for secure, one-way information exchange in mission-critical environments. It delivers uncompromising hardware-enforced protection with high-throughput performance, comprehensive policy control, and integrated compliance reporting—all within a self-contained, rack-mountable appliance. Designed for plug-and-play deployment and continuous operation, it provides out-of-the-box value, exceptional scalability, and the assurance needed to safeguard IT and OT networks of any size or complexity.



Highlights

Secured hardware enforced unidirectional data flow design

DataPlix solution incorporates a secure, hardware-enforced unidirectional data-flow architecture that permits data to flow in a unidirectional way while preventing any return path. This certainty is achieved through the physical design rather than software controls, eliminating the possibility that configuration errors, vulnerabilities, or cyberattacks could enable reverse communication. By ensuring a strictly one-way transfer of data and preserving data integrity, the design provides a robust and high-assurance security boundary. It is ideally suited for critical environments — such as industrial control systems, defense networks, and financial infrastructures—where operational information must be transmitted for monitoring or analysis while the source network remains completely isolated from external access.

Plug and play ready to deploy in air gapped network, no extra server or software required

DataPlix is plug-and-play and ready for immediate deployment in air-gapped networks, requiring no additional servers or supporting software. The appliance arrives preconfigured for rapid installation, allowing organizations to integrate it seamlessly into isolated environments without the complexity of external dependencies or lengthy setup processes. This streamlined approach reduces implementation time, minimizes maintenance overhead, and ensures that critical networks can be secured quickly and efficiently while maintaining their complete physical and logical isolation.

High throughput

DataPlix offers high-throughput performance with support for data transfer rates up to 10 Gbps, enabling fast, reliable movement of large data sets while maintaining the strict one-way security enforced by the hardware architecture. This capability ensures near–real-time delivery of critical information for monitoring, analytics, or archival purposes, even in environments with heavy data demands, while the originating network remains completely isolated and protected.

User-friendly configuration via GUI

DataPlix incudes user-friendly graphical interface that supports both administrative and standard user operations. Administrators can efficiently configure and monitor the system, while standard users can perform authorized data-exchange tasks through the same intuitive environment. This unified, easy-to-navigate interface streamlines interaction for all roles, reduces training requirements, and maintains the solution’s rigorous security posture.

Multi-protocol support

DataPlix solution delivers scalable multi-protocol support, enabling seamless, high-throughput one-way data transfer across diverse standards such as HTTP, HTTPS, FTP, UDP, and other critical enterprise and industrial protocols.
This flexibility allows secure integration with existing IT and OT systems without redesigning network architectures.

Support for Diverse Data

DataPlix is designed to securely transfer a broad range of information while maintaining its hardware-enforced one-way architecture. It supports high-volume and time-critical data flows with consistently low latency, ensuring that operational insights and business processes receive the information they need without introducing any inbound risk. Its high-performance design accommodates diverse data types and transmission requirements, enabling continuous visibility and reporting while preserving uncompromising isolation between networks.

Use cases

Secure firmware and software updates in isolated environments

Data diodes enable secure one-way transfer of update packages from trusted external sources into isolated systems. The solution's low cost supports widespread deployment across geographically distributed assets.

Secure Document Handling

A data diode enables automated, one-way file transfer from the untrusted submission server to the secure analysis workstation. This setup prevents outbound connections or command-and-control callbacks from malware embedded in documents, while reducing manual handling overhead. File Diode ensures high-reliability transfer.

Secure data analytics

A one-way data diode is installed between the ICS network and the secure analytics system. Sensor and log data flow out of the ICS environment, while preventing any return path for commands or malicious payloads. The low-cost hardware allows for scalable deployment across multiple sites and substations, ensuring consistent policy enforcement without high capital expenditure.

Monitoring & alerting automation

Data diodes provide assured one-way data ingestion, with this feature user can automate the day-to-day monitoring and alerting mechanism of the OT network components and services. The Data diode design supports deployment in temporary or rapidly changing operational environments.

Secure integration of SoC

Data diode ensures one-way flow of audit logs from sensitive or classified systems while maintaining air gap protection of the source network. User can export the logs to the centralized monitoring network with air gap protection.