

Complete Your RFID Solution with Teltonika Switches

RFID technology is essential for efficient inventory management and asset tracking across many industries. A robust network infrastructure enabled by Teltonika switches can significantly enhance the efficiency and reliability of these systems. In this white paper, we explore the specific benefits of Teltonika switches for businesses looking to enhance their RFID solutions

The Benefits of Teltonika Switches for RFID Solutions:

Unmatched Network Performance for Real-Time

Visibility: While Teltonika switches are competitively priced, their true value lies in optimizing your RFID system's performance. Teltonika switches offer data speeds up to 1000 Mbps (Gigabit) per port, ensuring smooth handling of large volumes of RFID data. This translates to real-time data visibility, minimizing lag and enabling faster response times in critical applications.

Scalability for Future Growth: As your business expands, so might your RFID needs. Teltonika switches are designed for scalability. With a Teltonika switch in place, you can easily add more RFID readers to your network in the future without compromising performance. Teltonika switches are available with a range of ports, from 5-port models for smaller deployments to options with up to 8 Gigabit Ethernet ports to accommodate future expansion of RFID readers.

Enhanced Security and Centralized Management:

Teltonika switches offer advanced security features like VLANs, which segregate RFID data from other network traffic, safeguarding sensitive information. Some Teltonika switches offer Teltonika RMS: Configure, monitor and secure your network remotely

Seamless Integration and Real-time Data Insights:

Teltonika switches ensure efficient data transmission from RFID tags. This real-time data can be seamlessly integrated with other systems in your network, like inventory management software or access control systems. This facilitates smoother workflows, automated processes and data-driven decision making.

Competitive pricing and beyond:






Of course, budget is a crucial factor. Alongside their technological advantages, Teltonika switches are competitively priced, offering a cost-effective solution without compromising on quality or performance. This makes them an attractive option for businesses looking to maximize their technology investments.

In addition to competitive pricing, Teltonika switches provide:

- **Robustness and Reliability:** Designed to perform under various conditions, ideal for industries reliant on constant network connectivity.
- **Ease of Use:** User-friendly interface simplifies network management, reducing strain on IT teams.
- **Versatility:** Supports various network protocols for diverse operational needs.
- **Energy Efficiency:** Lowers operational costs and supports sustainability goals.



Technical Specifications of Teltonika Switches

Feature	TSW 100	TSW 110	TSW 114	TSW 200	TSW202
					
Switch Type	Unmanaged	Unmanaged	Unmanaged	Managed	Managed
Number of Ports	5 Gigabit	5 Gigabit	5 Gigabit	8 Gigabit Ethernet ports & 2 SFP ports	8 Gigabit Ethernet ports & 2 SFP ports
Data Rate	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
PoE Support	Active PoE	Passive PoE	Passive PoE	Active PoE	Active PoE
Security Features	Basic network security due to its unmanaged nature	Basic network security due to its unmanaged nature	Basic network security due to its unmanaged nature	ACLs, MAC Filtering	ACLs, MAC Filtering
Management Features	n.a.	n.a.	n.a.	Web Interface, SNMP, supports various network management protocols	Extensive management features through Web UI, SNMP, and supports firmware updates via FOTA and RMS



Applications of Teltonika Switches in RFID Systems

Teltonika switches can be integrated into RFID systems to enhance various operational facets, including:

- Network Expansion and Scalability:** As businesses grow, their network requirements can change. Teltonika switches facilitate easy scalability to accommodate expanding network needs without significant reconfigurations.
- Enhanced Data Handling Capabilities:** With superior data throughput and handling capabilities, these switches ensure that the vast amounts of data generated by RFID systems are processed efficiently, reducing latency and improving system responsiveness.
- Improved System Reliability:** The reliability of Teltonika switches ensures minimal downtime for RFID systems, crucial for operations where constant tracking and inventory updates are essential.
- Support for Multiple Devices:** Supporting a wide array of devices and protocols, Teltonika switches can seamlessly integrate into existing RFID setups. Moreover, they offer versatile PoE capabilities:
- o **Active PoE** Out enables the powering of devices such as wireless access points, IP cameras, VoIP phones, and other switches directly through the Ethernet cable without the need for separate power supplies. This is particularly beneficial in environments where electrical outlets are limited or in difficult-to-reach areas.
 - o **Passive PoE** provides a simpler setup for devices that do not require two-way communication for power, offering a straightforward solution for powering over Ethernet with no communication or negotiation needed.

Conclusion

Incorporating Teltonika switches into RFID systems presents an opportunity for businesses to enhance their operational efficiency and reliability. Through competitive pricing, robust performance and advanced security features, Teltonika offers a compelling upgrade for existing RFID solutions. Businesses looking to maximize their technology investment while ensuring seamless, secure, and efficient operations will find Teltonika switches to be an invaluable addition to their infrastructure.

We encourage all customers to explore how Teltonika switches can transform their RFID solutions. For more information contact our sales team directly.