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North America Military Ethernet Switches Market Forecast to 2030 - Regional Analysis by Type (MIL-STD Package Solution and Board Level Ruggedized Configuration), Application (Unmanned System, Ground Vehicle, Airborne Platforms, and Maritime Platforms), and Network (Managed and Unmanaged)

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Abstracts

The North America military ethernet switches market is expected to grow from US$ 613.49 million in 2022 to US$ 933.26 million by 2030; it is estimated to register a CAGR of 5.7% from 2022 to 2030.

Military aircraft and ship systems operate in high temperatures, humidity, vibration, shock, electromagnetic interference, and other extreme conditions. Rugged computing systems are designed to withstand these harsh conditions and maintain reliable performance. They are equipped with robust components and undergo rigorous testing to ensure they can operate effectively in challenging environments. Military operations require reliable and resilient network infrastructure. Military ethernet switches incorporate redundant power supplies, fault-tolerant designs, and network redundancy protocols to ensure continuous operation, even in challenging environments or during equipment failures. Thus, the growing demand for rugged computing in aircraft and ship/vessel systems is driving the North America military ethernet switches market growth.

Regular commercial ethernet switches vary from ruggedized military ethernet switches in manufacturing, design, testing, and implementation. Ruggedized construction means these switches and their MIL-STD components are included inside ruggedized housing. Further, unlike the regular commercial Ethernet switches, the rugged switches for

military applications are tested to meet the impact, EMF, and EMI requirements. Therefore, the advantages offered by the ruggedized configuration of ethernet switches for military applications are projected to propel the North America military ethernet switches market growth for the segment during the forecast period.

Restrictions on travel, social distancing measures, and workforce limitations affected manufacturing capacity, which led to delays and shortages production of various defense equipment. Despite the challenges, unmanned systems, cybersecurity, and medical equipment used in the defense industry witnessed increased demand in the defense industry of North America. The growth of the unmanned systems segment, owing to the rise in the number of procurement contracts, boosted the North America military ethernet switches market share in Q1 and Q2 of 2020. For instance, in March 2020, the US Air Force Research Laboratory awarded a contract to Planck Aerosystems Inc. With this contract, the company offered its expertise in the development of guidance, navigation, and control solutions for small, unmanned aircraft systems operating in challenging environments. Similarly, in March 2020, the US Air Force (USAF) awarded a contract of US$ 23 million to FLIR Systems to supply ~200 of its Centaur unmanned ground vehicles (UGV) and spares. Such contracts are expected to increase the North America military ethernet switches market share.

In Canada, vast maritime and aerospace domains require reliable and ruggedized ethernet switches for naval vessels, submarines, aircraft, and ground-based installations. These switches are designed to withstand harsh environmental conditions and ensure continuous communication and data exchange between the onboard systems and ground control stations. Military ethernet switches facilitate the integration of UAV/UAS systems into broader military networks. They provide connectivity and interoperability, allowing unmanned systems to communicate with other military platforms, ground stations, and command centers. This integration enables coordinated operations and data sharing among different assets on the battlefield. Thus, the adoption of military UAV/UAS platforms is supporting the growth of the North America military ethernet switches market in the country.

The North America military ethernet switches market is predominantly driven by end-user such as ground, naval, and air forces. The North America military ethernet switches market players also include companies such as Lockheed Martin Corporation, WB Group, IAI, UVision Air Ltd, Elbit Systems Ltd, STM Savunma Teknolojileri M?hendislik ve Ticaret A?, AVision Systems Pvt Ltd, Aeronautics Ltd, Rafael Advanced Defense Systems, and Thales Group, among others. Several other major North America military ethernet switches market players were studied and analyzed during

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this market research study.

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Contents

1. INTRODUCTION

1.1 Study Scope
1.2 The Insight Partners Research Report Guidance
1.3 Market Segmentation
1.3.1 Military Ethernet Switches Market – By Type
1.3.2 Military Ethernet Switches Market – By Application
1.3.3 Military Ethernet Switches Market – Network
1.3.4 Military Ethernet Switches Market- By Region

2. KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

3.1 Coverage
3.2 Secondary Research
3.3 Primary Research

4. MILITARY ETHERNET SWITCHES MARKET LANDSCAPE

4.1 Market Overview
4.2 PEST Analysis
4.2.1 North America
4.3 Ecosystem Analysis
4.4 Expert Opinion
4.5 Product Benchmarking

5. MILITARY ETHERNET SWITCHES MARKET – KEY MARKET DYNAMICS

5.1 Market Drivers
5.1.1 Rising Military Expenditure for Procurement of Advanced Unmanned System
5.1.2 Demand for Rugged Computing in Military Aircraft and Ship/Vessel Systems
5.2 Market Restraints
5.2.1 High Cost Associated with Production and Military Standards Certifications
5.3 Market Opportunities
5.3.1 Growing Demand for Network-Centric Warfare

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5.4 Future Trends
5.4.1 Growing Need for High-Speed Data Transfer and Real-Time Communications
5.5 Impact Analysis of Drivers and Restraints

6. MILITARY ETHERNET SWITCHES MARKET – NORTH AMERICA ANALYSIS

6.1 Military Ethernet Switches Market – Revenue and Forecast to 2030 (US$ Million)
6.2 Market Positioning – Five Key Players

7. MILITARY ETHERNET SWITCHES MARKET ANALYSIS – BY TYPE

7.1 Overview
7.2 Military Ethernet Switches Market, By Type (2022 and 2030)
7.3 MIL-STD Package Solution
7.3.1 Overview
7.3.2 MIL-STD Package Solution: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
7.4 Board Level Ruggedized Configuration
7.4.1 Overview
7.4.2 Board Level Ruggedized Configuration: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)

8. MILITARY ETHERNET SWITCHES MARKET ANALYSIS – BY APPLICATION

8.1 Overview
8.2 Military Ethernet Switches Market, By Application (2022 and 2030)
8.3 Unmanned System
8.3.1 Overview
8.3.2 Unmanned System: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
8.4 Ground Vehicle
8.4.1 Overview
8.4.2 Ground Vehicle: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
8.5 Airborne Platforms
8.5.1 Overview
8.5.2 Airborne Platforms: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
8.6 Maritime Platforms

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8.6.1 Overview
8.6.2 Maritime Platforms: Military Ethernet Switches Market- Revenue and Forecast to 2030 (US$ Million)

9. MILITARY ETHERNET SWITCHES MARKET ANALYSIS – BY NETWORK

9.1 Overview
9.2 Military Ethernet Switches Market, By Network (2022 and 2030)
9.3 Managed
9.3.1 Overview
9.3.2 Managed: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
9.4 Unmanaged
9.4.1 Overview
9.4.2 Unmanaged: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)

10. MILITARY ETHERNET SWITCHES MARKET ANALYSIS – BY COUNTRY

10.1 Overview
10.2 Military Ethernet Switches Market, By Country (2022 and 2030)
10.3 US
10.3.1 Overview
10.3.2 US: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
10.3.2.1.1 US Military Ethernet Switches Market Breakdown, By Type
10.3.2.1.2 US Military Ethernet Switches Market Breakdown, By Application
10.3.2.1.3 US Military Ethernet Switches Market Breakdown, By Network
10.4 Canada
10.4.1 Overview
10.4.2 Canada: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
10.4.2.1.1 Canada Military Ethernet Switches Market Breakdown, By Type
10.4.2.1.2 Canada Military Ethernet Switches Market Breakdown, By Application
10.4.2.1.3 Canada Military Ethernet Switches Market Breakdown, By Network
10.5 Mexico
10.5.1 Overview
10.5.1.1 Mexico Military Ethernet Switches Market, Revenue and Forecast to 2030
10.5.1.1.1 Mexico Military Ethernet Switches Market Breakdown, By Type

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10.5.1.1.2 Mexico Military Ethernet Switches Market Breakdown, By Application
10.5.1.1.3 Mexico Military Ethernet Switches Market Breakdown, By Network

11. IMPACT OF COVID-19 PANDEMIC ON NORTH AMERICA MILITARY ETHERNET SWITCHES MARKET

11.1 North America: Impact Assessment of Covid-19 Pandemic

12. INDUSTRY LANDSCAPE

12.1 Overview
12.2 Market Initiative
12.3 New Product Development
12.4 Merger and Acquisition

13. COMPANY PROFILES

13.1 Ontime Networks LLC
13.1.1 Key Facts
13.1.2 Business Description
13.1.3 Products and Services
13.1.4 Financial Overview
13.1.5 SWOT Analysis
13.1.6 Key Developments
13.2 Curtiss-Wright Corp
13.2.1 Key Facts
13.2.2 Business Description
13.2.3 Products and Services
13.2.4 Financial Overview
13.2.5 SWOT Analysis
13.2.6 Key Developments
13.3 Aitech Defense Systems Inc
13.3.1 Key Facts
13.3.2 Business Description
13.3.3 Products and Services
13.3.4 Financial Overview
13.3.5 SWOT Analysis
13.3.6 Key Developments
13.4 Aeronix Inc

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13.4.1 Key Facts
13.4.2 Business Description
13.4.3 Products and Services
13.4.4 Financial Overview
13.4.5 SWOT Analysis
13.4.6 Key Developments
13.5 Techaya ltd
13.5.1 Key Facts
13.5.2 Business Description
13.5.3 Products and Services
13.5.4 Financial Overview
13.5.5 SWOT Analysis
13.5.6 Key Developments
13.6 Red Lion Controls Inc
13.6.1 Key Facts
13.6.2 Business Description
13.6.3 Products and Services
13.6.4 Financial Overview
13.6.5 SWOT Analysis
13.6.6 Key Developments
13.7 Diamond Systems Corp
13.7.1 Key Facts
13.7.2 Business Description
13.7.3 Products and Services
13.7.4 Financial Overview
13.7.5 SWOT Analysis
13.7.6 Key Developments
13.8 Cisco Systems Inc
13.8.1 Key Facts
13.8.2 Business Description
13.8.3 Products and Services
13.8.4 Financial Overview
13.8.5 SWOT Analysis
13.8.6 Key Developments
13.9 Milpower Source Inc
13.9.1 Key Facts
13.9.2 Business Description
13.9.3 Products and Services
13.9.4 Financial Overview

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info@marketpublishers.com

13.9.5 SWOT Analysis
13.9.6 Key Developments
13.10 Amphenol Corp
13.10.1 Key Facts
13.10.2 Business Description
13.10.3 Products and Services
13.10.4 Financial Overview
13.10.5 SWOT Analysis
13.10.6 Key Developments
13.11 Abaco Systems Inc
13.11.1 Key Facts
13.11.2 Business Description
13.11.3 Products and Services
13.11.4 Financial Overview
13.11.5 SWOT Analysis
13.11.6 Key Developments

14. APPENDIX

14.1 About The Insight Partners
14.2 Word Index

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List Of Tables

LIST OF TABLES

Table 1. Military Ethernet Switches Market – Revenue and Forecast to 2030 (US$ Million)
Table 2. US Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Type (US$ Million)
Table 3. US Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Application (US$ Million)
Table 4. US Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Network (US$ Million)
Table 5. Canada Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Type (US$ Million)
Table 6. Canada Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Application (US$ Million)
Table 7. Canada MILITARY ETHERNET SWITCHES Market, Revenue and Forecast to 2030 – By Network (US$ Million)
Table 8. Mexico Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Type (US$ Million)
Table 9. Mexico Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Application (US$ Million)
Table 10. Mexico Military Ethernet Switches Market, Revenue and Forecast to 2030 – By Network (US$ Million)
Table 11. List of Abbreviation

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List Of Figures

LIST OF FIGURES

Figure 1. Military Ethernet Switches Market Segmentation
Figure 2. Military Ethernet Switches Market Segmentation – By Geography
Figure 3. North America Military Ethernet Switches Market Overview
Figure 4. MIL-STD Package Solution Segment held the Largest Share of Military Ethernet Switches Market
Figure 5. Ground Vehicle Segment held the Largest Share of Military Ethernet Switches Market
Figure 6. Managed held the Largest Share of Military Ethernet Switches Market
Figure 7. North America: PEST Analysis
Figure 8. Expert Opinion
Figure 9. Product Benchmarking
Figure 10. Military Ethernet Switches Market Impact Analysis of Drivers and Restraints
Figure 11. MILITARY ETHERNET SWITCHES Market – Revenue and Forecast to 2030 (US$ Million)
Figure 12. Military Ethernet Switches Market Revenue Share, By Type (2022 and 2030)
Figure 13. MIL-STD Package Solution: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 14. Board Level Ruggedized Configuration: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 15. Military Ethernet Switches Market Revenue Share, By Application (2022 and 2030)
Figure 16. Unmanned System: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 17. Ground Vehicle: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 18. Airborne Platforms: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 19. Maritime Platforms: Military Ethernet Switches Market- Revenue and Forecast to 2030 (US$ Million)
Figure 20. Military Ethernet Switches Market Revenue Share, By Network (2022 and 2030)
Figure 21. Managed: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 22. Unmanaged: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)

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Figure 23. Military Ethernet Switches Market Revenue Share, By Country (2022 and 2030)
Figure 24. US: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 25. Canada: Military Ethernet Switches Market – Revenue, and Forecast to 2030 (US$ Million)
Figure 26. Mexico Military Ethernet Switches Market, Revenue and Forecast to 2030 (US$ Million)
Figure 27. Impact of Covid-19 Pandemic in North American Country Markets

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