High Speed Network Infrastructure

Overview

The High-Speed Network Infrastructure testbed will introduce high-speed fiber optic lines to support Industrial Internet initiatives. The network will transfer data at 100 gigabits per second to support seamless machine-2-machines communications and data transfer across connected control systems, big infrastructure products, and manufacturing plants.

The 100 gigabit capability extends to the wireless edge, allowing the testbed leaders to provide more data and analytical results to mobile users through advanced communication techniques. Industrial Internet Consortium founder, GE, is leading efforts by installing the networking lines at its Global Research Center. Cisco - also a founder of the Consortium - contributed its expertise to the project by providing the infrastructure needed to give the network its national reach.

Industrial Internet Consortium members Accenture and Bayshore Networks are currently demonstrating the application of the High-Speed Network Infrastructure for power generation.

Wave division multiplexing dominates the global optical network hardware market, generating over 81% of the overall revenue. The dominance is primarily driven by China’s investments towards the development of broadband infrastructure, with a focus on 100G fiber-optic internet connections.

Applicable Industries

Aerospace


Agriculture, Forestry & Fishing


Automotive


Chemicals


Electronics & Embedded Devices


Construction


Consumer Goods


Food & Beverage


Furniture & Home Appliances


Healthcare Services


Heavy Vehicle


Equipment & Machinery


Medical Devices & Equipment


Mining


Paper & Pulp


Pharmaceuticals


Plastics & Rubber


Rail & Metro


Renewable Energy

- Shipping
- Smart Grid
- Telecommunications

Applicable Functions

- Facility Maintenance
- Logistics
- Maintenance
- Procurement & Sourcing
- Production - Manufacturing
- Quality Assurance

Market Size

Estimate A

The global optical network hardware market is predicted to grow to USD 24.99 billion by 2021.

Source: Business Wire

Estimate B

The fiber optics market size is projected to reach USD 5.00 billion by 2021.

The fiber optics market is driven by the increasing demand for the Internet and growing FTTx networks. The Internet has gained importance with the rising demand for cloud computing, data transfer & storage, and the Internet of Things (IoT).

Source: Business Wire

IoT ONE Use Case

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