

FIBERROAD

Industrial Ethernet & Optical Transport

IoT The Future



1



Company

2

Multiservice
Platform

3

Ethernet
Switch

4

WDM
OTN

5

Success
Stories

6

Product
Preview

7

Worldwide
Partnerships

1

Company Profile

Fiberroad was founded in 2008; We are dedicated to providing reliable network communication products and solutions. With rich practical experience and technology, we are qualified to provide stable and perfect network communication solutions, which are focused on the integration of Optical Fibre Technology, Industrial ethernet and Carrier Access Technology.

Company Values

Professionalisation Deep ploughing of technology to drive the ecological development of the industry.

Streamline Complete qualifications, reaching the advanced international level.

Specialisation Independent research and development, unique product technology.

Novelty Continuous innovation, with several patented technologies.



R&D



Production



Sales & Marketing



Services

1

Team Mate



R&D Team

Core Members

Originated from NeoPhotonics. Including but not limited to Hardware, Software and Product Inspection.



Management

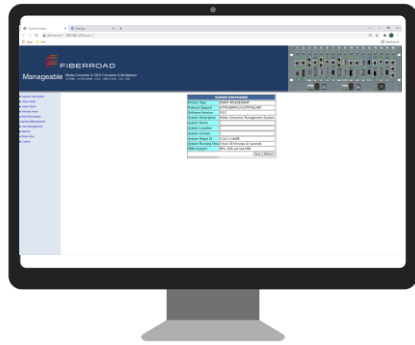
Core Members

Working experience in international chip and equipment provider.



1

Product Line



Layer 1

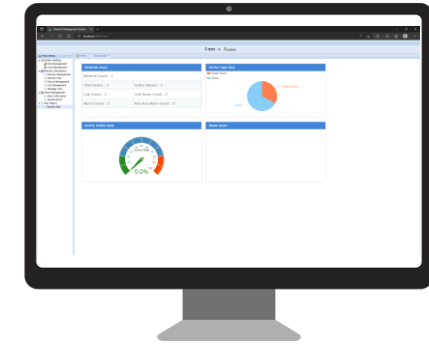
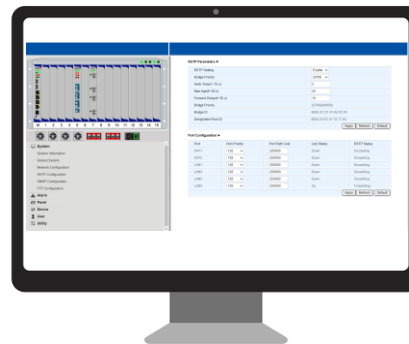


- ❖ Carrier-Grade Fiber Media Converter Platform
- ❖ MINI Media Converter Series
- ❖ Fiberroad EMS/NMS management system

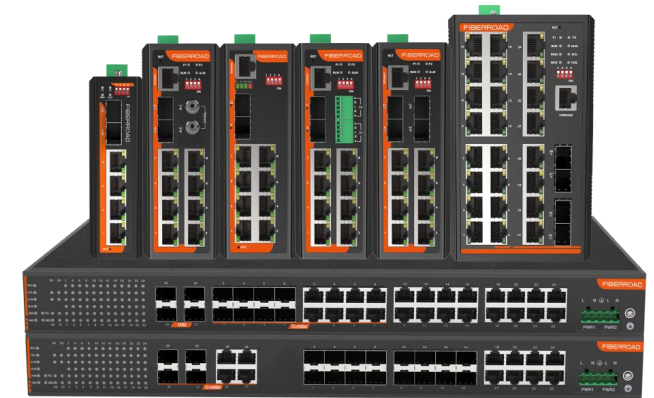


- ❖ 6U Optical Transport System
- ❖ Compact module Optical Line System

Layer 1



Layer 2 & 3



- ❖ L2+/L3 Industrial Ethernet Switch
- ❖ POE++ PoE Switch
- ❖ FIRO NMS & FIRO Cloud Management

Outstanding Achievements



Shenzhen Hi-Tech Enterprise



ISO9001



National Hi-Tech Enterprise



CE,FCC,RoHS Certificate

1

WE JUST CONNECT TO DO MORE



From Carrier Ethernet To Industrial Ethernet

95+
Countries

180+
Partners

112+
Patents

18,850,232+
Device Connected

An aerial view of a city with a network of digital icons overlaid. The icons include a globe, a brain with a chip, a cloud, a shopping cart, a Bitcoin symbol, a laptop, a house, a Wi-Fi symbol, a person, a factory, a bar chart, a location pin, a speech bubble, a smartphone, an envelope, and a car. The background is a cityscape with a highway and a body of water in the distance.

2 Multiservice Platform

2

Carrier-Grade Multiservice Access Platform



The 2U 16 Slots Converter Rack is a Ethernet over Fiber transmission equipment, support multiple services including **100M-10G** media converter card, **100M-40G transponder**, **1+1 service protection card**, CWDM/DWDM MUX/DEMUX Card, etc., support network management protocols like SNMP, WEB, CONSOLE and TELNET.

Smart Remote Unit (Industrial/Carrier-grade)
Compatible with **IEEE802.3ah**, to realize Link Monitoring, Remote Failure Indication, Remote Loopback Control.

2

Intelligent Mini Fiber Media Converter



- ❑ 1U Rack Mount, 12 Slots, Dual Power AC and Fans, Mini Media Converter Chassis.
- ❑ **Built-in DIP Switch for Intelligent operation.**
- ❑ High-density chassis, suitable for standard 19-inch network rack
- ❑ Specially designed to accommodate chassis-based mini Media Converters

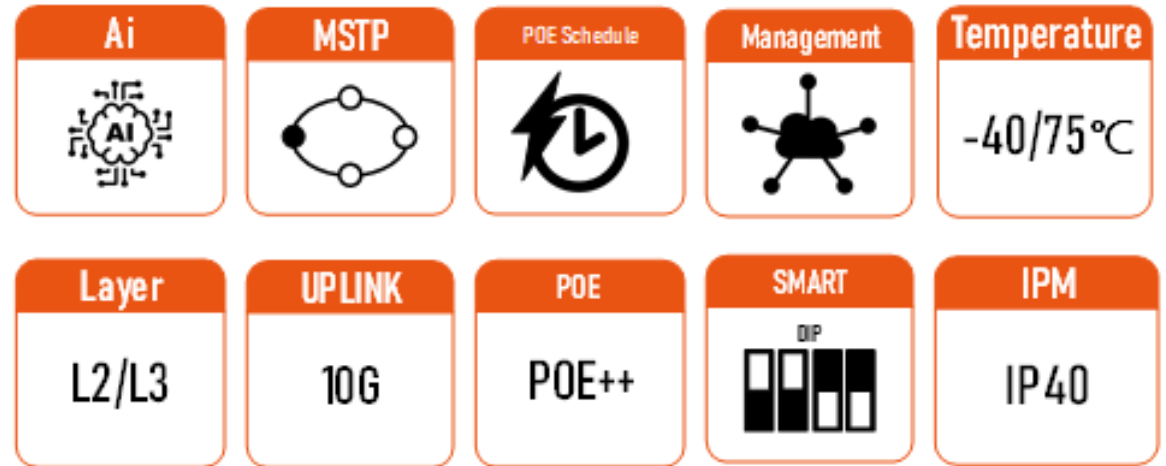
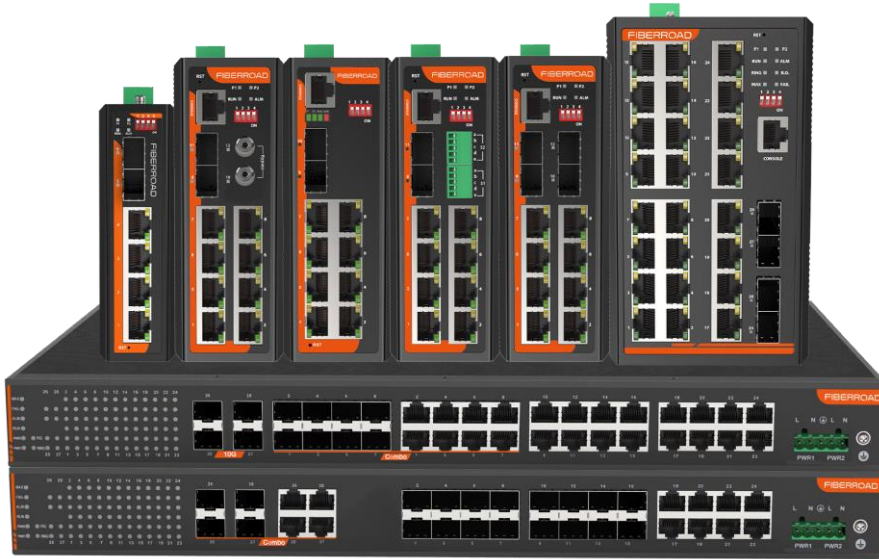
- ❑ 155M & 1.25G SM to SM Converter
- ❑ 125M~1.25G SFP to SFP Converter
- ❑ 10/100Base-TX to 100Base-FX Converter
- ❑ 10/100/1000Base-TX to 1000Base-FX Converter
- ❑ 2x10/100/1000Base-TX to 1000Base-FX Converter
- ❑ 1x10GBase-FX to 10GBase-FX OEO Converter



3 Industrial Ethernet

3

Industrial Ethernet Switch



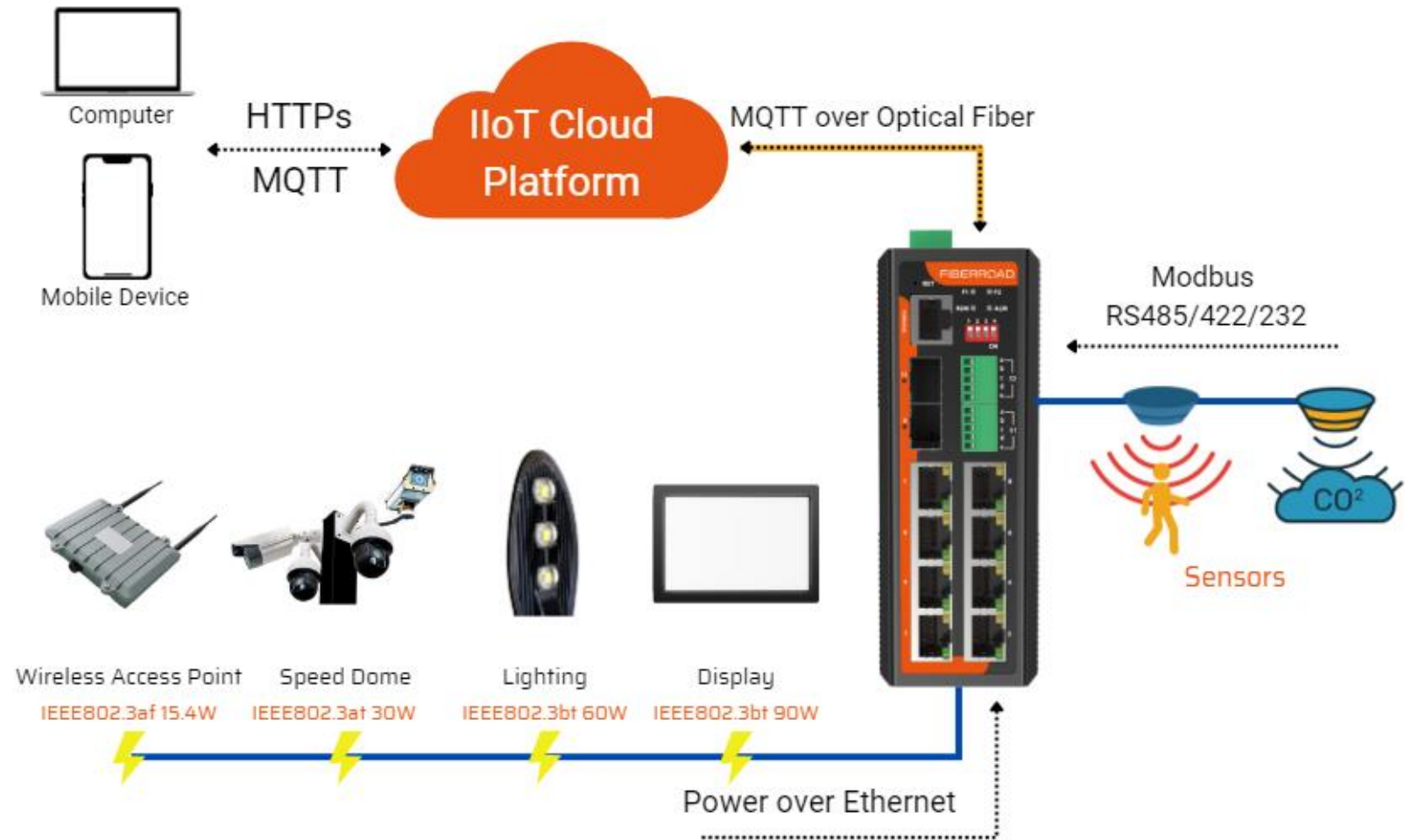
Fiberroad Industrial Ethernet Switch Series can offer redundant mechanisms for industrial critical applications.

- ❑ It can also operate at an **industrial standard temperature** range of -40 to 75°C.
- ❑ Electric 8kV surge protection.
- ❑ Housed in rugged DIN rail or Rack-mountable **IP40 enclosures**.
- ❑ These switches are perfect for **harsh environments**, such as industrial networking and **intelligent transportation systems (ITS)**.

3

All-in-One IoT Solution

- ❑ Power over Ethernet
- ❑ Serial over Ethernet
- ❑ Ethernet over Optical Fiber
- ❑ Ethernet over MQTT
- ❑ Modbus over MQTT



3

Industrial Network Management System



Network Management



Real-time Monitoring



Cross Platform Operation



Centralized Administration

Web-based Network Management System

Web-based Cloud Management

Web Management

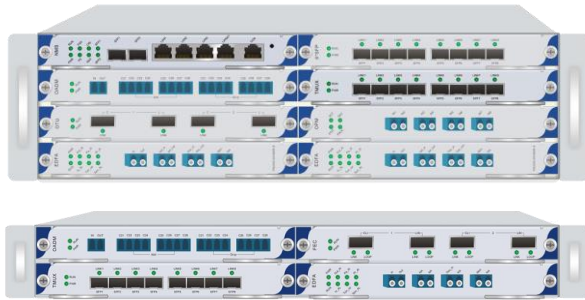




4 WDM/OTN

4

Integrated Optical Transport System



Dark Fiber
Providers



Data Center



Financial
Institutions



Content
Providers



Campus



Cloud



Government



Mobile Network



Enterprise

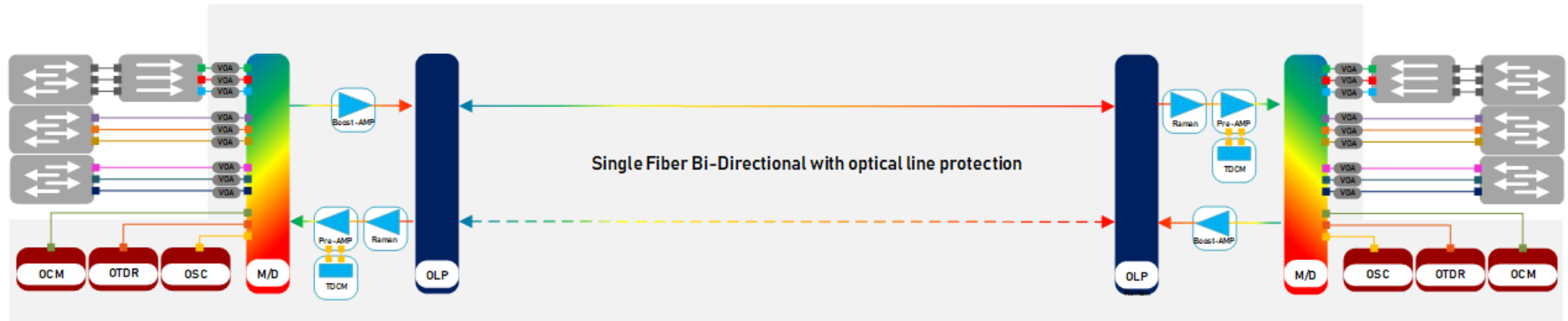


IXP

- ❑ Multi-rate and multi-protocol
- ❑ Low latency connectivity
- ❑ Remote management and topology discovery
- ❑ Supports full C-band tunable DWDM online side
- ❑ Optional integrated EDFA, Mux/Demux, DCM, OLP, etc
- ❑ Supports 1+1 facility protection
- ❑ Supports single and dual fibre infrastructure
- ❑ Supports service layer link alarm transfer

4

Optical Line System



Ideal for Edge Networking

MUX/DEMUX | EDFA | DCM | OLP | OCM | OTDR | VOA

- ① Modular pay-as-you-grow architecture
- ② Mix-and-match modular flexibility
- ③ Low operating costs
- ④ Open and programmable
- ⑤ Simplified turn-up and lifecycle management





5 Success Story

5

Worldwide Success Stories



Carrier-Grade Multiservice Access Platform



2010
Thailand

**Carrier Ethernet Access
To Enterprise Users**



2011
Hong Kong

**Carrier Ethernet Access
To Enterprise Users**



2014
Russia

**Carrier Ethernet Access
To Rural Users**

5

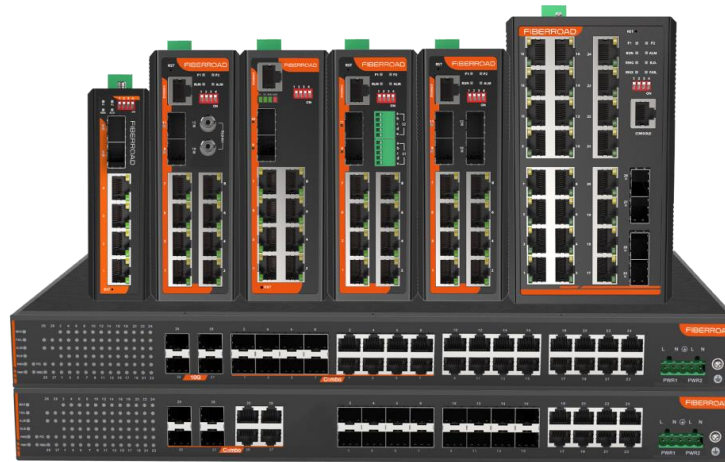
Worldwide Success Stories



2019 Chile
Smart Clean Energy



2021 Spain & Portugal
Smart Bus System



Industrial Ethernet Switch Series



2022 Chile
Smart Cell Tower



2022 China
Smart Urban Utility Tunnel

5

Worldwide Success Stories



Optical Transport System



2016
United States

Data Center Interconnection



2017
Canada

Utilities Metro DWDM Ring



2022
Canada

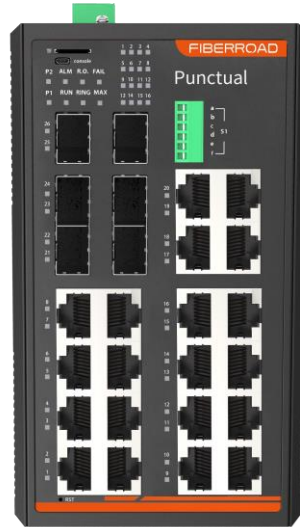
100G/200G
Data Center Interconnection



6 Product Preview

6

2023 Product Preview



TSN Industrial Ethernet Switch

Supports IEEE 802.1AS/IEEE 802.1Qbv/IEEE 1588v2

Est. Launch in Q2 2023



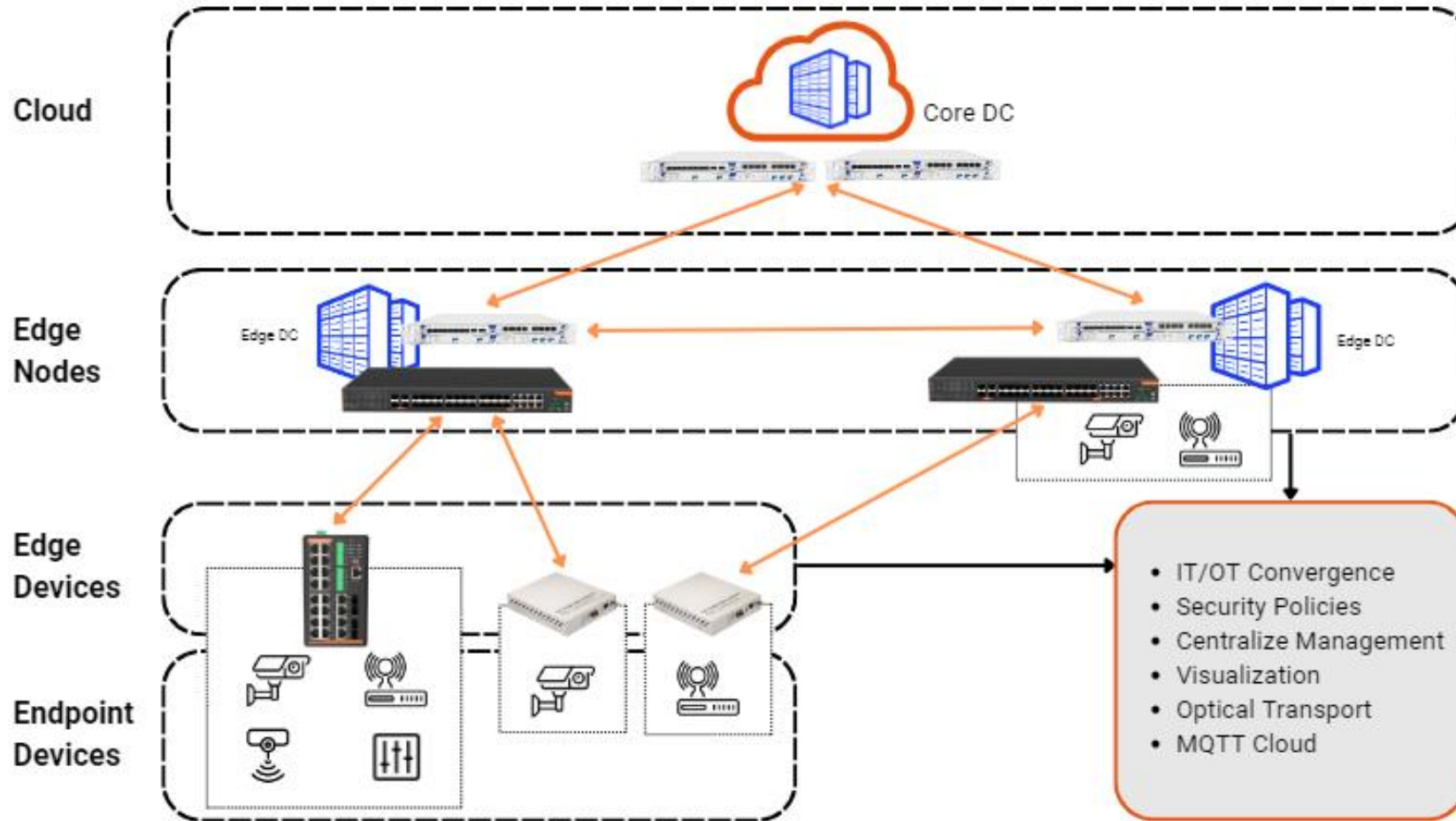
IloT Edge Platform

Ethernet Access to L3 Switching

Est. Launch in Q2 2023

Edge Network Connectivity

Ethernet Access+ L2/L3 Switching + Optical Transport Technology



Applications



Smart City



Smart Transportation



Smart Manufacturing



Smart Energy

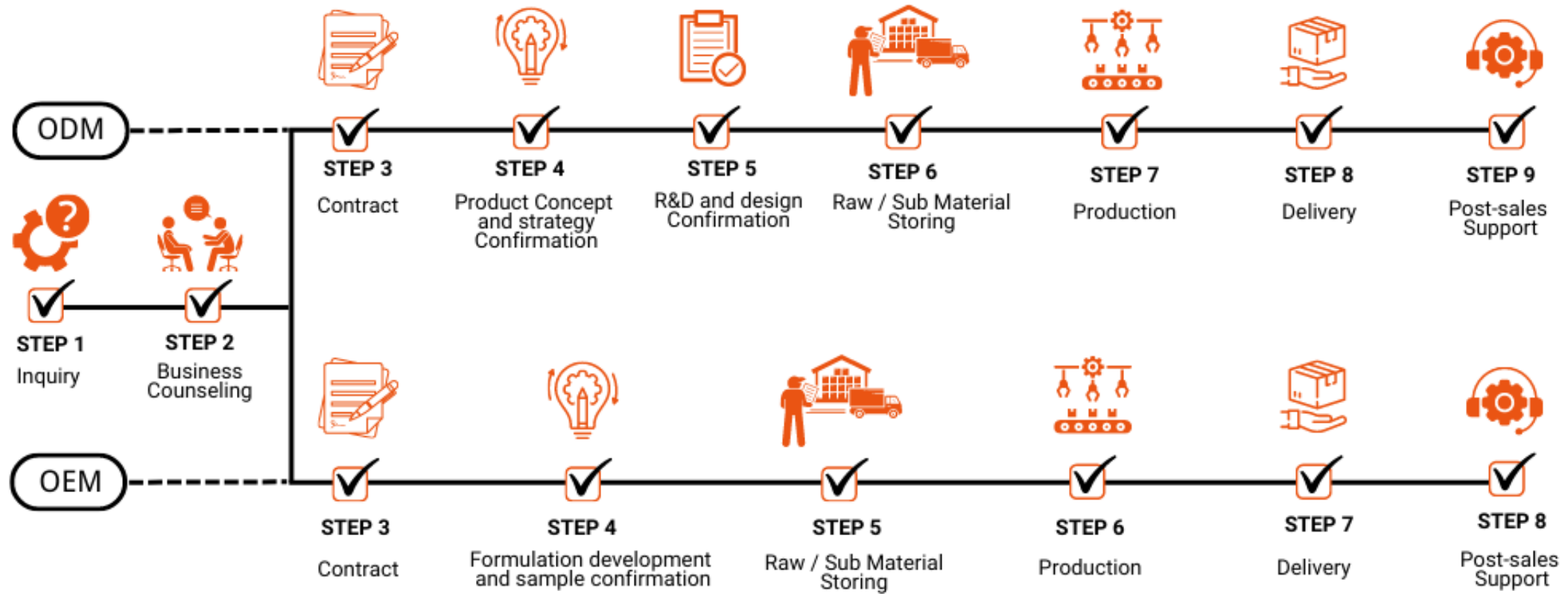


7 Worldwide Partnership

7

More Than 10 Years of OEM/ODM System

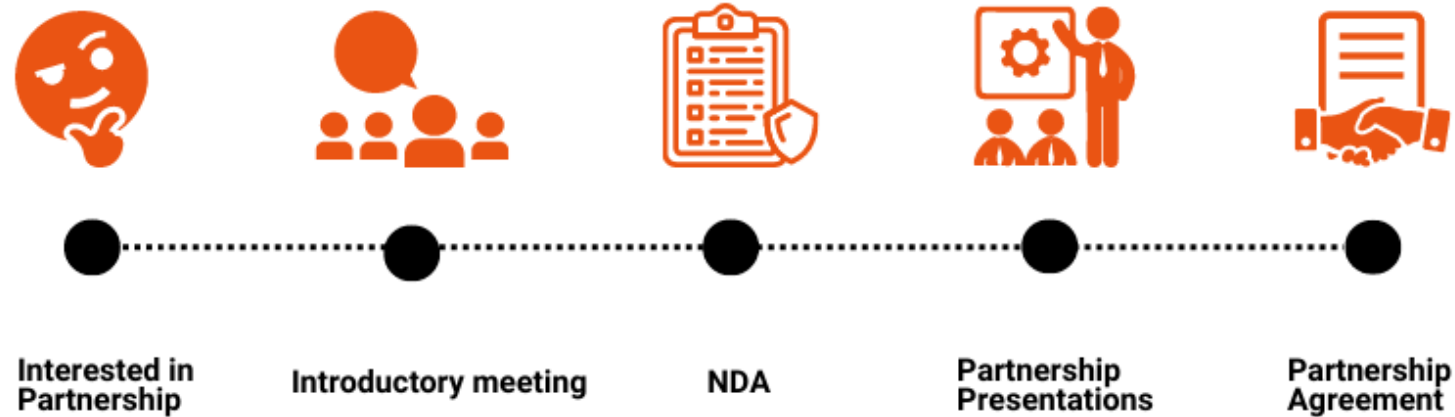
We operate customized manufacturing solutions to provide total services optimized for customers' businesses.



7

Regional Channel Partner

With FIRO's global recognition growing, Fiberroad has created a worldwide selection of partners to be closer to the customers and satisfy their expectations on the Fiberroad journey.



Benefits of a partnership

- No licence fees and no vendor lock-in
- Mutual promotion
- Redirection of prospects from Fiberroad to its partner
- General marketing materials
- Partner news distribution
- Availability of partner support
- Shared support fees (e.g marketing event)
- Discounts on services
- Package of consultancies

The background features an aerial view of a city with a network of white lines and nodes overlaid. Several circular icons are scattered across the scene, including a globe, a brain with a chip, a cloud, a shopping cart, and a Bitcoin symbol. A large white rectangular box with an orange border is centered on the page.

THANK YOU

Contact us for more details