PLANET
Networking & Communication

Utilize Metro Ethernet to Easily Enable Inter-City Networks

PLANET's Metro Ethernet Solution provides a secure singular network system to manage inter-city connectivity. The Metro Ethernet Switch Series features high bandwidth fiber-optic transmission for delivering crucial data between locations.

10Gbps Managed Media Converter

L2+/L3 Metro Ethernet Switches

Network Management Systems

LoRaWAN Sensors/Gateway/AIoT Application Server

Benefits of PLANET Metro Ethernet Network Solution

Inter-city Connectivity

1 Connected Network System

Up to 120km farther with media converter

Wide Speed Range 1Gbps to 100Gbps

Reliable Transmission

Redundant Power Supply

Fast Network Recovery

Robust Cybersecurity

Scalability and Management

For any verticals: telecom, ISPs, branch offices, residential, etc.

Sustainable Network with LoRa AIoT

Intuitive Centralized Network Management

Metropolitan Area Network Application

A single fiber network across long-distance inter-city locations for efficient data transmission and management.
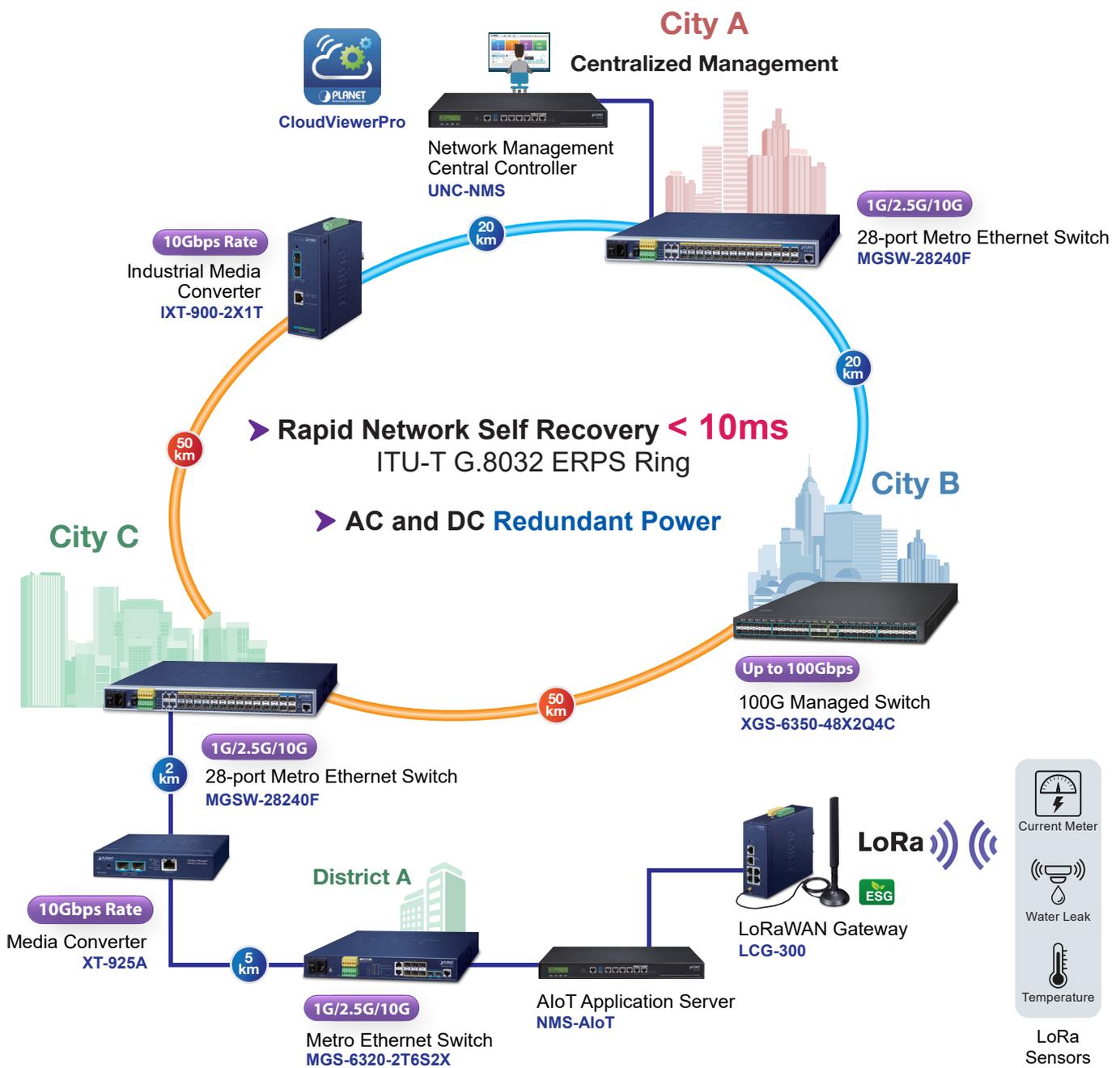
Going the Extra Distance:
The fiber network can reach further by integrating the Managed Media Converter (XT-900 and IXT-900 Series).

Centralized and Remote Management:
Receive intelligent analysis of connected devices in all metropolitan networks with UNC-NMS. CloudViewerPro app allows for on-the-go monitoring of all connected network devices.

Enhance Sustainability:
Improve power saving, detect environmental hazards or more within each city without extra wiring by collecting data from long-range wireless LoRaWAN sensors to be analyzed by the AIoT Application Server (NMS-AIoT)

City A

Centralized Management

CloudViewerPro

Network Management Central Controller
UNC-NMS

20 km

1G/2.5G/10G

28-port Metro Ethernet Switch
MGSW-28240F

10Gbps Rate

Industrial Media Converter
IXT-900-2X1T

20 km

50 km

➤ **Rapid Network Self Recovery < 10ms**
ITU-T G.8032 ERPS Ring

➤ **AC and DC Redundant Power**

City B

City C

Up to 100Gbps

100G Managed Switch
XGS-6350-48X2Q4C

50 km

2 km

1G/2.5G/10G

28-port Metro Ethernet Switch
MGSW-28240F

10Gbps Rate

Media Converter
XT-925A

5 km

District A

1G/2.5G/10G

Metro Ethernet Switch
MGS-6320-2T6S2X

AIoT Application Server
NMS-AIoT

LoRa

LoRaWAN Gateway
LCG-300

ESG

Current Meter

Water Leak

Temperature

LoRa Sensors

Featured Products:

L3 2-Port 100/1000T + 2-Port 100/1000X SFP + 4-Port 2.5G SFP + 2-Port 10G SFP+ Metro Ethernet Switch
MGS-6320-2T6S2X

- Redundant Power System: 100V ~ 240V AC/Dual 24V ~ 57V DC
- Pv4 dynamic routing protocol supports RIPv2 and OSPFv2 and IPv6 OSPFv3
- Supports IPv4 IGMP Snooping v1, v2 and v3, IPv6 MLD Snooping v1 and v2

L3 14-Port 100/1G SFP with 4 shared 10/100/1000T + 10-Port 1G/2.5G SFP + 4-Port 10G SFP+ Metro Ethernet Switch
MGSW-28240F

- One 100 to 240V AC or dual 36 to 60V DC power input, redundant power with reverse polarity protection
- 2 DI, 2 DO
- IP dynamic routing protocol supports OSPFv2

Layer 3 48-Port 10G SFP+ + 2-Port 40G QSFP+ + 4-Port 100G QSFP28 Managed Switch
XGS-6350-48X2Q4C

- Static Routing, RIP v1/v2, OSPF and BGP
- Supports Multicast Routing Protocols
- IPv6 Static Routing, RIPng, OSPFv3 and BGP4+

10G/1GBASE-X SFP+ Managed Media Converter
XT-905A/915A/925A

- Fiber optic ports assist in doubling the distance of deployment
- An array of intelligent and secure management interfaces include Web UI, CLI, and SNMP, catering to different user preferences and technical expertise levels
- The link-fault pass-through (LFP) feature enables quick identification of link failures and helps minimize network downtime

Cloud-based Monitoring & Control App
CloudViewerPro

- Location setup for clearly grouping devices at a glance
- A quick overview of the network through managed device page
- Monitor and control access point
- Available for Android and iOS

Industrial 10G/1GBASE-X SFP+ Managed Media Converter
IXT-900-1X1T/IXT-900-2X/IXT-900-2X1PD/IXT-900-2X1T

- 1 10GBASE-T RJ45 copper interface, backward compatible with
- 5G/2.5G/1Gbps and 100Mbps datarate
- 1 or 2 10GBASE-X SFP+ slot
- Supports ITU-G.8032 ERPS

Universal Network Management Central Controller
UNC-NMS

- Central management of up to 100 sites with 102,400 nodes
- Intuitive and user-friendly management functions
- View network and device status, make configurations, network analysis

AIoT Application Server
NMS-AIoT

- Data collection from LoRa sensors and LoRaWAN Gateways
- Real-time sensor information to improve sustainability (i.e. power usage, water leak, etc.)
- Central management for local area networks

Industrial LoRaWAN Gateway
LCG-300

- Transmit and receive data to LoRa-enabled devices
- Support up to 300 end-nodes
- SSL VPN and robust hybrid VPN (IPSec/PPTP/L2TP over IPSec)

LoRaWAN Sensors
LS100-WL/LS100-PIR/LS100-DW/LS200-TH/LS200-PT/LS200-TC/LS200-RF/LS200-LG/LS200-CM3

- Various Sensor Products:
  - Temperature and Humidity Sensor outdoor/indoor/Refrigerator
  - Temperature sensor
  - Water Leak Sensor
  - Light Level Sensor
  - Indoor Occupancy Sensor
  - Door and Window Sensor
  - Current Meter
- LoRaWAN™ Class A compatible
- Compliant with LoRaWAN® 1.0/1.0.2