



FUNCTION SOLUTION

Metro & Subway:

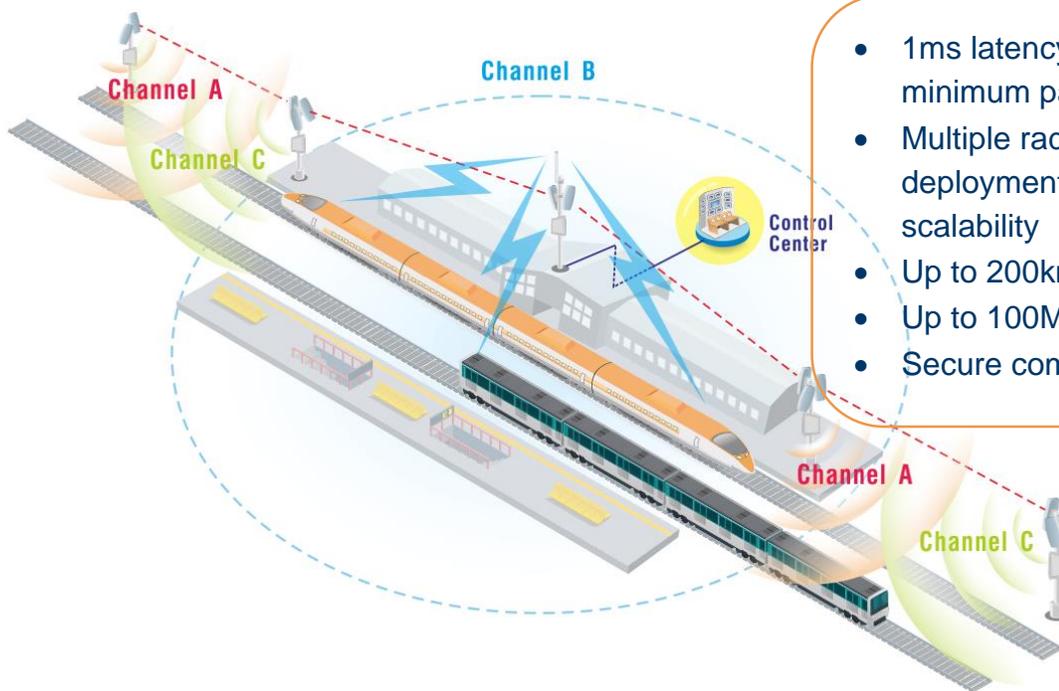
Wireless Surveillance and Wi-Fi Access





Every day, mass transit agencies and transportations face various challenges regarding security, deployment, and reliable data transmissions. Function state-of-the-art Mobile Mesh Network technology provides a complete solution that can be quickly deployed and professionally customized to address your specific needs. With real-time video surveillance, seamless wireless connectivity, and VoIP communications, you can enjoy the benefits of enhanced security, increased scalability, improved mobility, and guaranteed superior performance.

BRIEF OVERVIEW



- 1ms latency per hop without minimum packet lost
- Multiple radios (3) on each AP for deployment flexibility and scalability
- Up to 200km/hr speed support
- Up to 100Mbps after 9 hops
- Secure communication



Deployment Flexibility

The biggest challenge that metro subways face is having a reliable backbone network system that supports data, voice, and real-time video surveillance. With Function mesh network, our Metro & Subway Solution can cater to any scenario below, on, or above ground level. We have **three multiple radio interfaces** that can be configured independently to meet different wireless connectivity purposes, allowing greater flexibility for all types of deployment situations.

High Throughput

The most critical aspect of a MESH network is its ability to efficiently transfer data. Our APM series is capable of achieving a throughput of **200Mbps after 1 hop and up to 100Mbps after 9 hops**. We are able to achieve this because we developed our own fast switching protocol so that our backbone throughput will remain at a high level even after many hops. Our APM series can also support **QoS** (quality of service) which allows you to prioritize data and provides seamless real-time video surveillance.

Smart Roaming

To deliver satisfactory customer experience, our APM series is designed with our proprietary protocol which allows for fast roaming capabilities with very low latency: **1ms latency per hop without packet loss**. As a result, seamless wireless connection is provided. Security is also maximized as wireless surveillance will not suffer from packet loss. Our APM series can support up to 200km/hr speed.

Redundancy & Failover

In the incident that a link breaks, transmitted data will be lost and can cause serious security problems. We provide several redundancy solutions to combat link failure:

- 1) **Ethernet shortcut** – every link includes an Ethernet cable running down as well so in a case of connection failure, data will not be lost
- 2) **MESH Unity** – an additional equipment will be linked together so that if one equipment fails, the other will continue running and can, therefore, avoid data loss



We understand that your business and needs are unique, and that is why we proudly manufacture all our products in-house in Huizhou, Guangdong Province in China. By doing so, we can offer customers the desired flexibility and customizability without diminishing the quality and value of our products. Having undergone rigorous quality control and testing, our products are guaranteed to provide the high capacity, cost-effective, and robust performance you expect.

Access Point Mesh (APM)

The APM-101/102/103R(H) series are enterprise and carrier-grade 802.11N Outdoor Wireless Access Point which offers customers a robust and high performing solution for PTP/PTMP/Hotzone applications in both unlicensed 2.4GHz and 5GHz bands. Designed to meet customer needs in a broad range of industries, the APM-103R is the most ideal candidate for service providers looking to deliver carrier-grade wireless services to multiple market segments such as campuses, hospitality, healthcare, warehousing and wider metropolitan area deployments.



Network Management System

The Function Network Management System is an enterprise software solution that manages all the APs in the network. With a user-friendly interface, the Function Network Management System allows the administrator to monitor all the devices easily and quickly. The platform has all features and management capabilities to deliver the high performance that you need.

