



Solution for Tunnel Coverage

SYMAIR Communication Technology (Xi'an) Co., Ltd is the trusted supplier and partner to many of the world's influential businesses and institutions.



ABOUT US



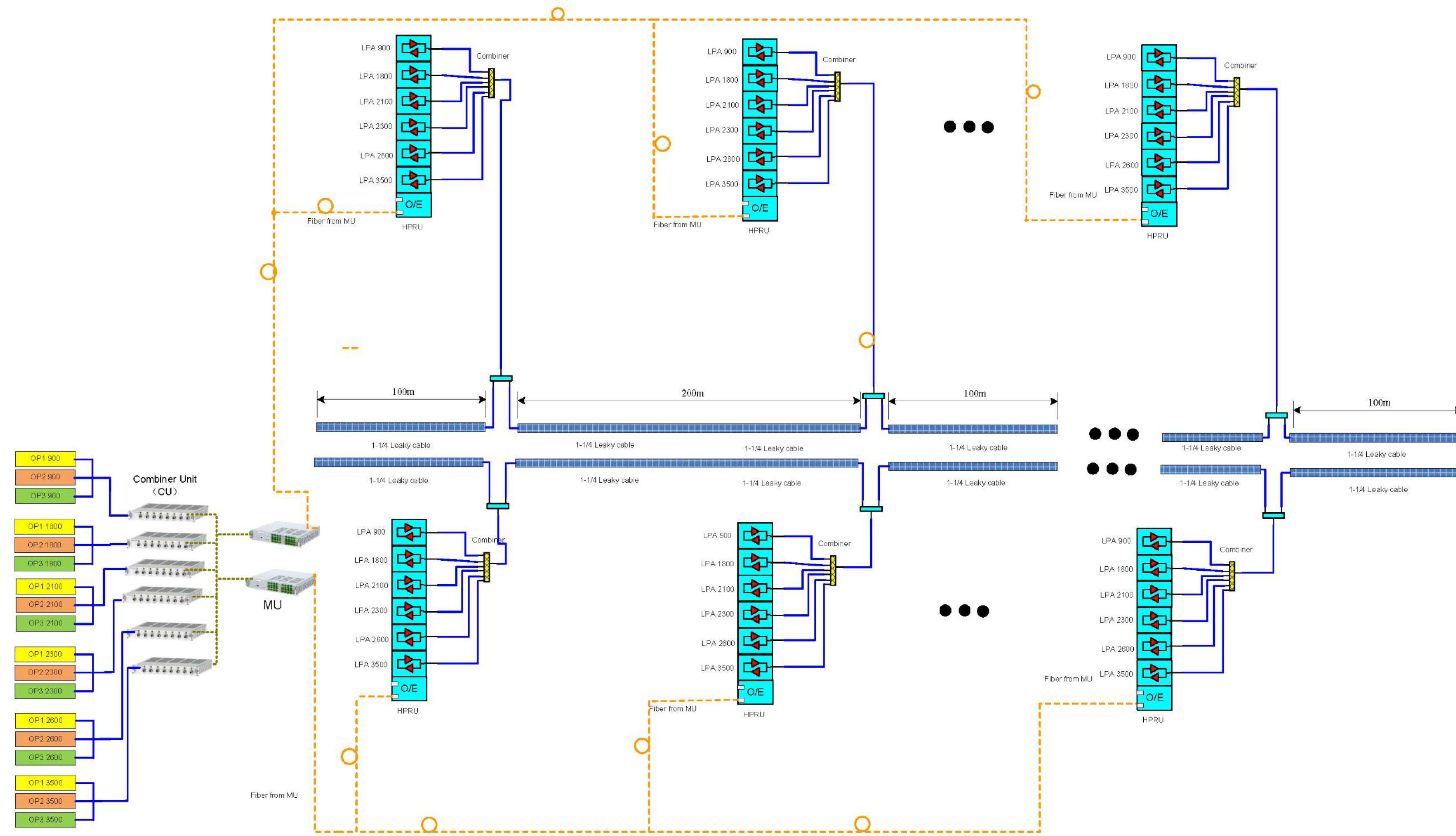
Introduction

Introduction of SYMAIR Communication Technology

SYMAIR, headquartered in Xi'an, China, with production facilities in Guangdong, is a solutions provider for mobile communication coverage and a manufacturer of related products. Leveraging over a decade of industry experience, SYMAIR has developed four major solutions: distributed antenna system (DAS), RF feeder cabling, panel antennas, and RF ceramic filters, assisting customers in reducing procurement costs, enhancing network quality, and optimizing profit margins.

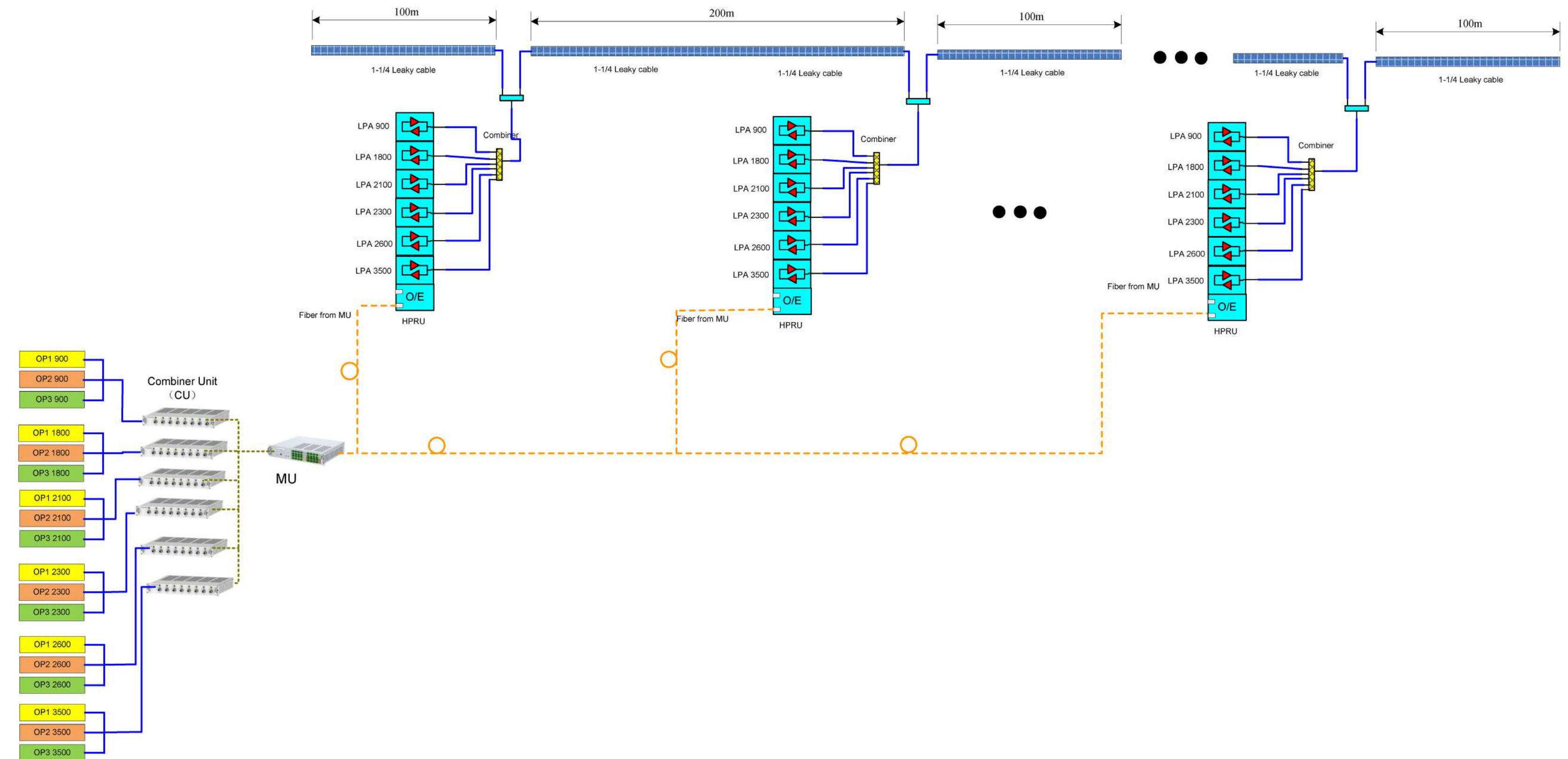
Solution for Tunnel Coverage

- 2T2R MIMO Application
- Support NR3500MHz
- 1-1/4" Radiating Cable Design



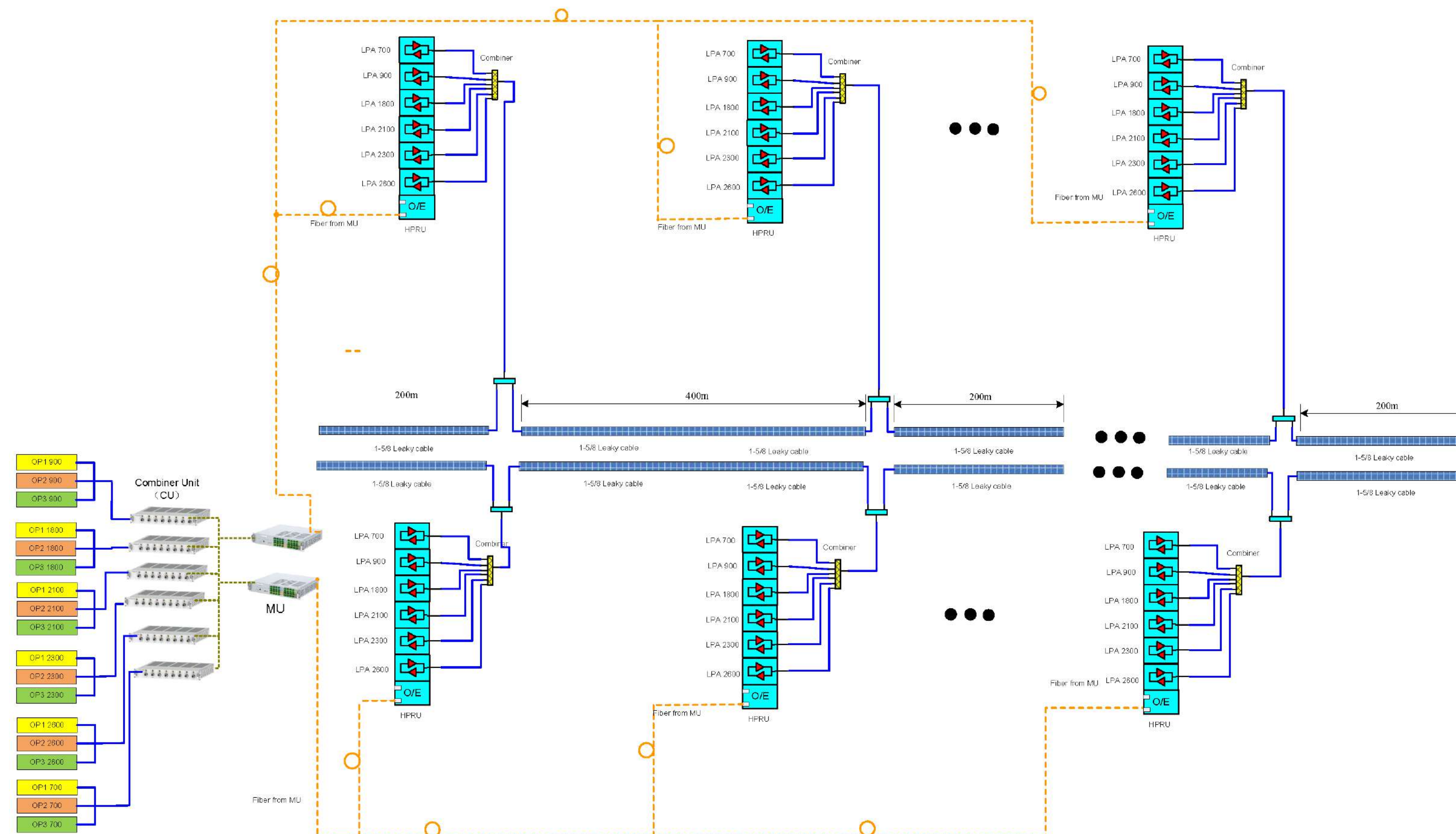
Solution for Tunnel Coverage

- SISO Application
- Support NR3500MHz
- 1-1/4" Radiating Cable Design



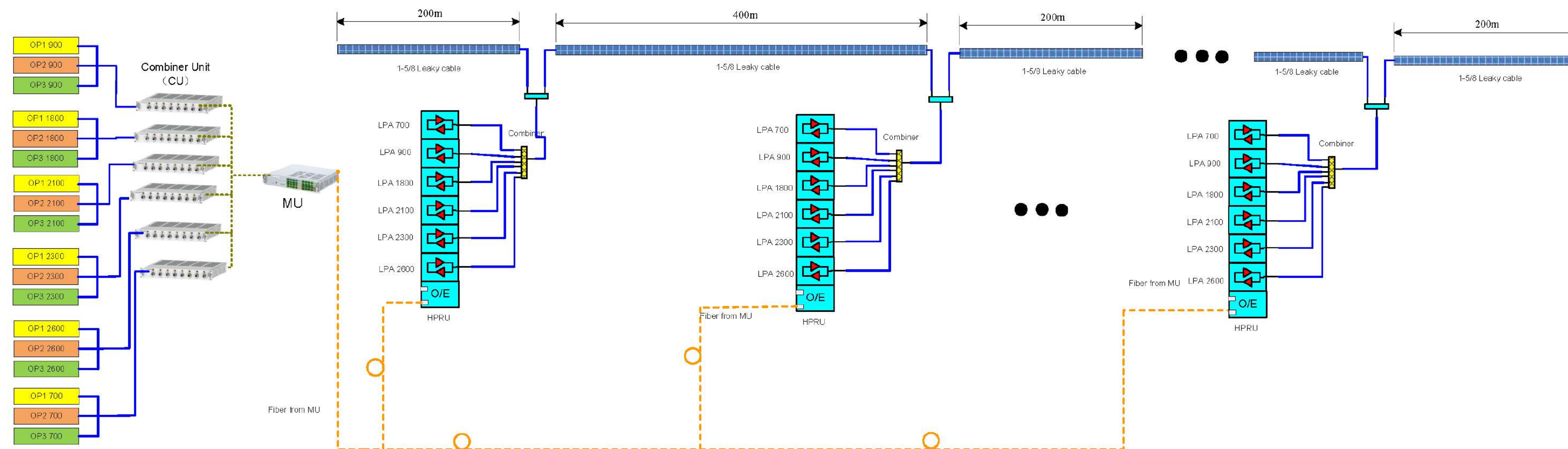
Solution for Tunnel Coverage

- 2T2R MIMO Application
- Excluding NR3500MHz
- 1-5/8" Radiating Cable Design



Solution for Tunnel Coverage

- SISO Application
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System Architecture

- Combiner Unit (CU)
 - Support up to 8 duplex RF input ports from BTS (698-3800 MHz)
 - Up to 4 operators per band
 - Attenuates BTS power by 30dB
 - Required BTS power 33-46 dBm
- Master Unit (MU)
 - Support GSM/UMTS/LTE/5G network
 - Adopting WDM module to realize long-distance transmission, Tx/Rx control and alarm
 - Messages can be transmitted via one fiber optic cable
 - One Master Unit can support up to 4 Remote Units to maximize utilization of fiber optic cable (A star topology is supported between MU and RUs)
- HPRU
 - Support Multi-Operator, Multi-Band, TDD+FDD
 - PA Amplifier modules support from 698-2700MHz and N78 (3300-3800 MHz)
 - Support for 2T2R per band
 - ≥43 dBm Composite Power per Band
 - Support SISO or MIMO
 - IP65 Chassis for Outdoor / Indoor application



THANK YOU



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