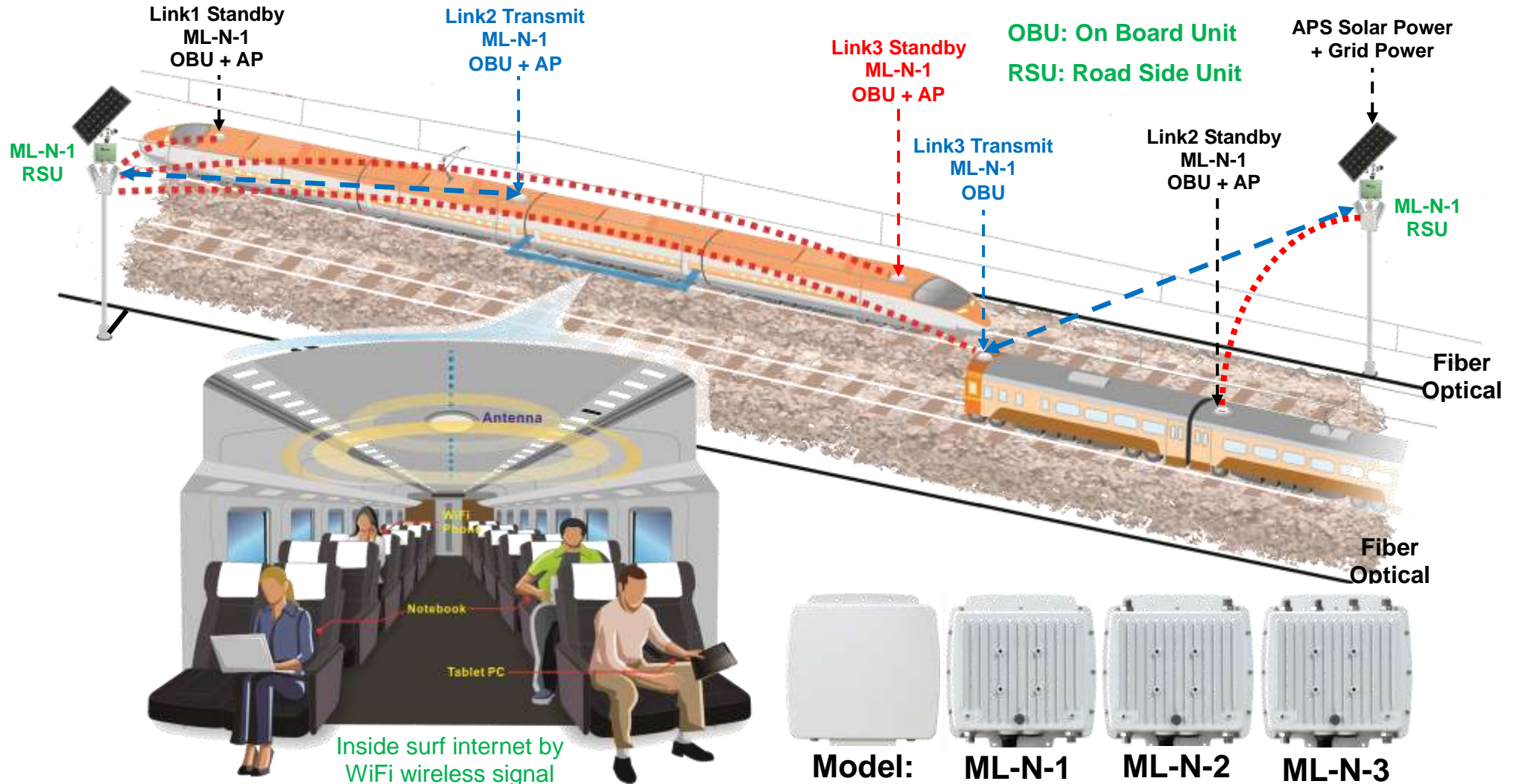


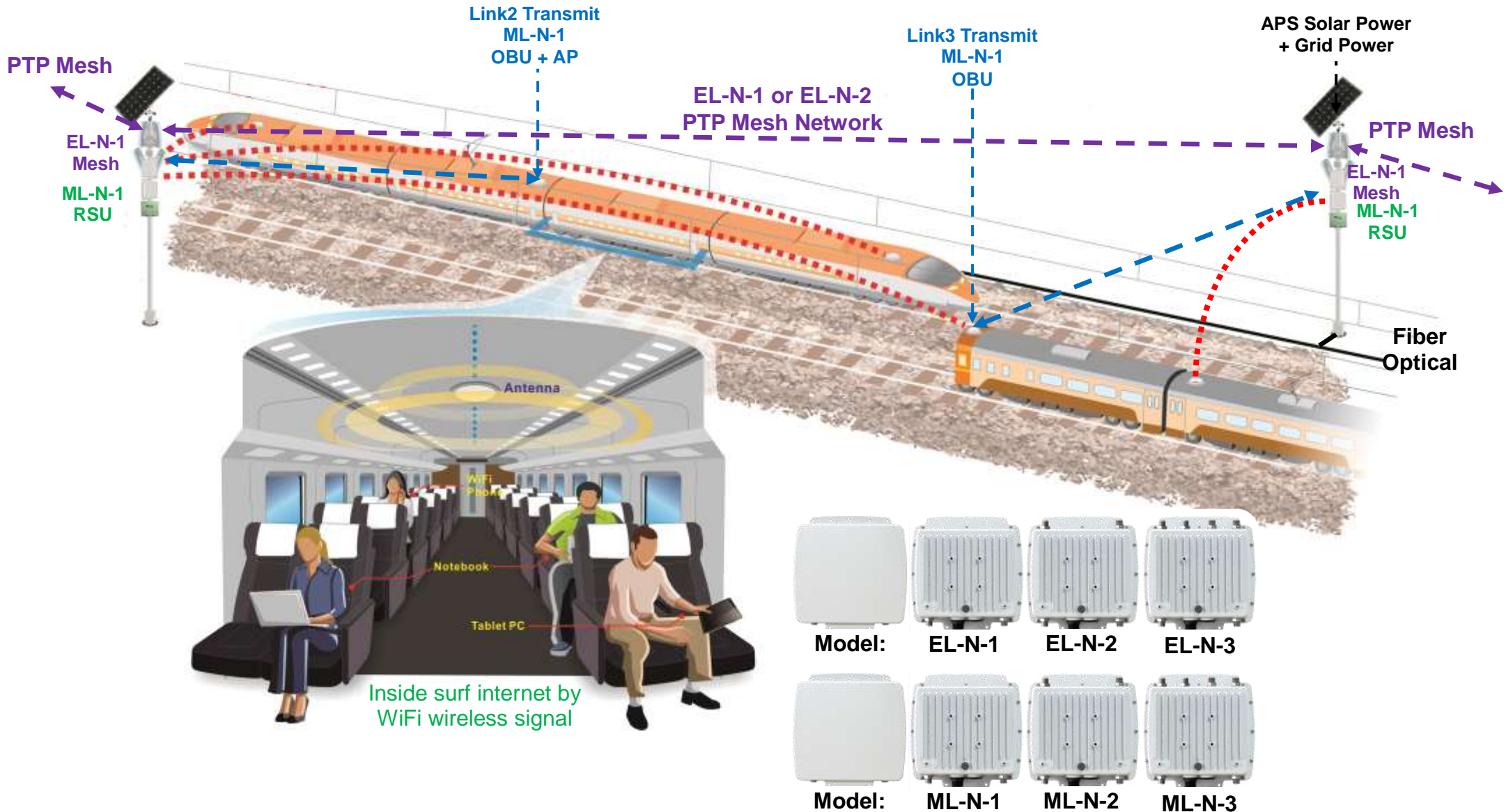
Outdoor EL-N & ML-N Series PTP Mesh Hi-mobile Wireless Network System

Design for Train / Subway / MRT (Bus) / Highway

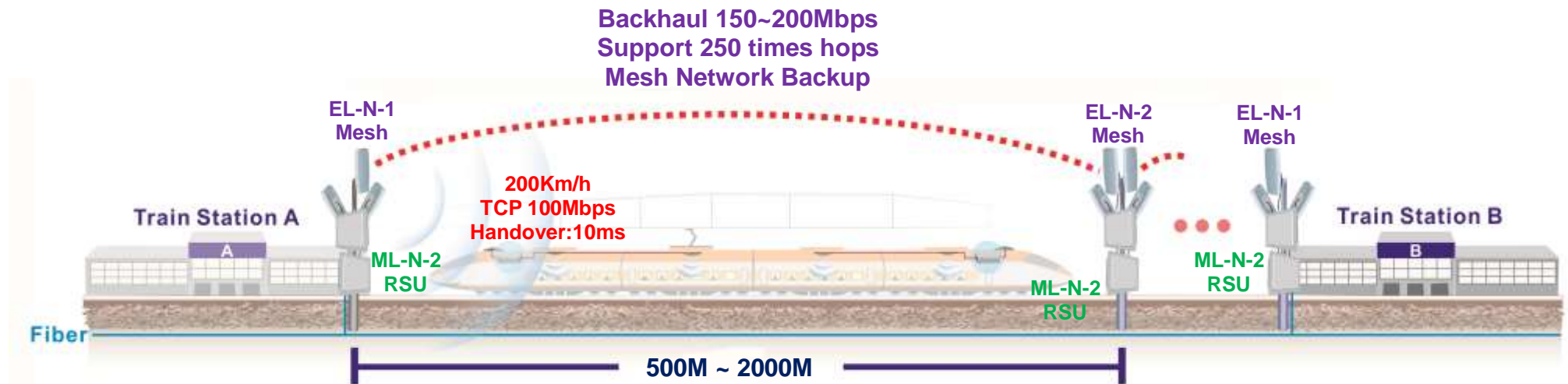
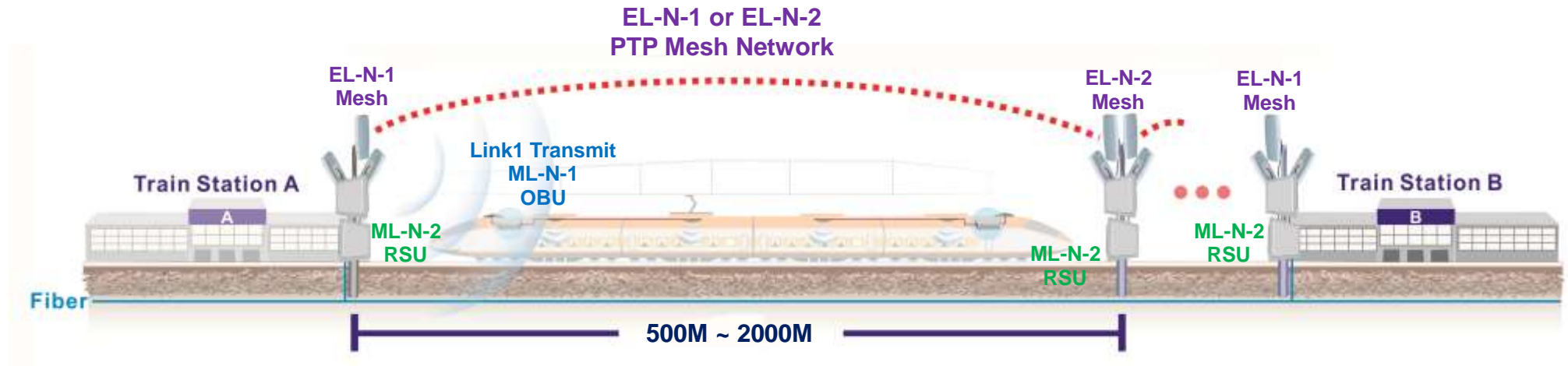
- Only Fiber Optical Backhaul System: ML-N-1 + APS Solar Power + Grid Power



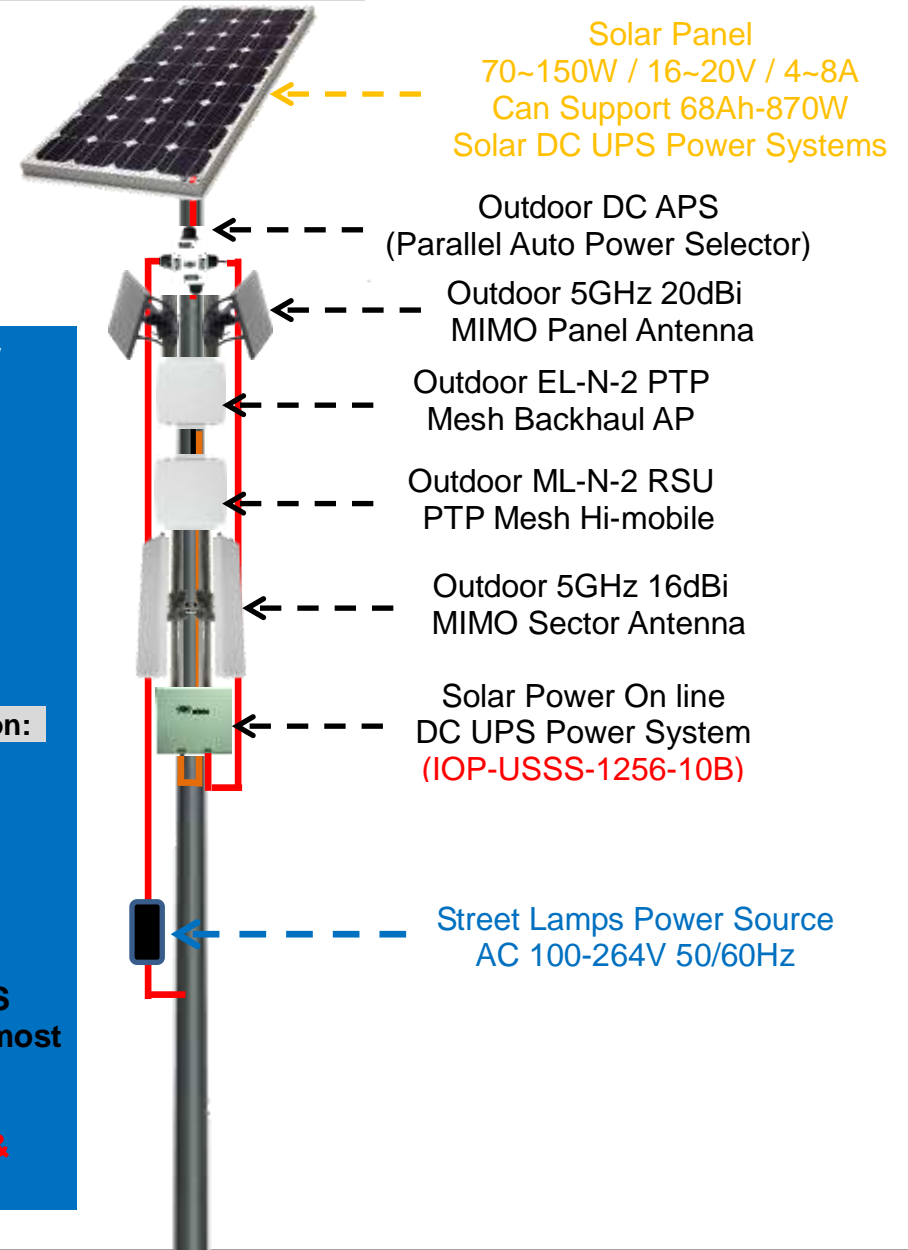
■ Fiber Optical + Mesh Network Backhaul System: EL-N-2 + ML-N-1 + APS Solar Power + Grid Power



Outdoor EL-N & ML-N Series PTP Mesh Hi-mobile Wireless Network System



■ APS Solar Power Wireless PTP Mesh Hi-mobile Wireless Network System



Parallel APS Solar + Grid Power Rainy Collection Energy — APS Solar DC UPS Wireless System Design (48Hrs Rainy Solar Power System)

A. System Power consumption:

1. Outdoor EL-N-2 : 7W/H
2. Outdoor ML-N-2 : 7W/H
3. Outdoor APS : 1W/H

B. Design Power Supply for Outdoor System about 48Hrs

Outdoor APS Solar PTP Mesh Wireless Hi-mobile System Power Consumption:

$48H * (7 + 7 + 1) W/H = 720W ; 720 W / 12.8V = 56.3Ah$
 Suggest use → IOP-USSS-1256-10B 717WH (56Ah @ 12.8V)

C. Calculation 2days 4hrs sunlight full charge use Solar Panel

$717W / 4H * 80% * 80% * 2days = 140W/H$
 (80% is Winter sunlight effect, 80% is solar charger effect)

D. Usually use Grid AC Power to DC to charge USSS-1256-10B DC UPS through APS, APS can parallel integrate Grid Power + Solar Power; almost every day can full charge DC UPS power system.

E. Design APS Solar Power + Grid Power can support Grid Power-off & 48hrs Power Back up features.