

WIRELESS MESH WI-FI SYSTEM

PicoCELA

A high-speed outdoor wireless network expansion solution without complicated LAN cabling - Reducing costs and saving installation time!



PICOCELA BACKHAUL ENGINE (PBE)

PicoCELA's Proprietary Technology

Automatic route optimization

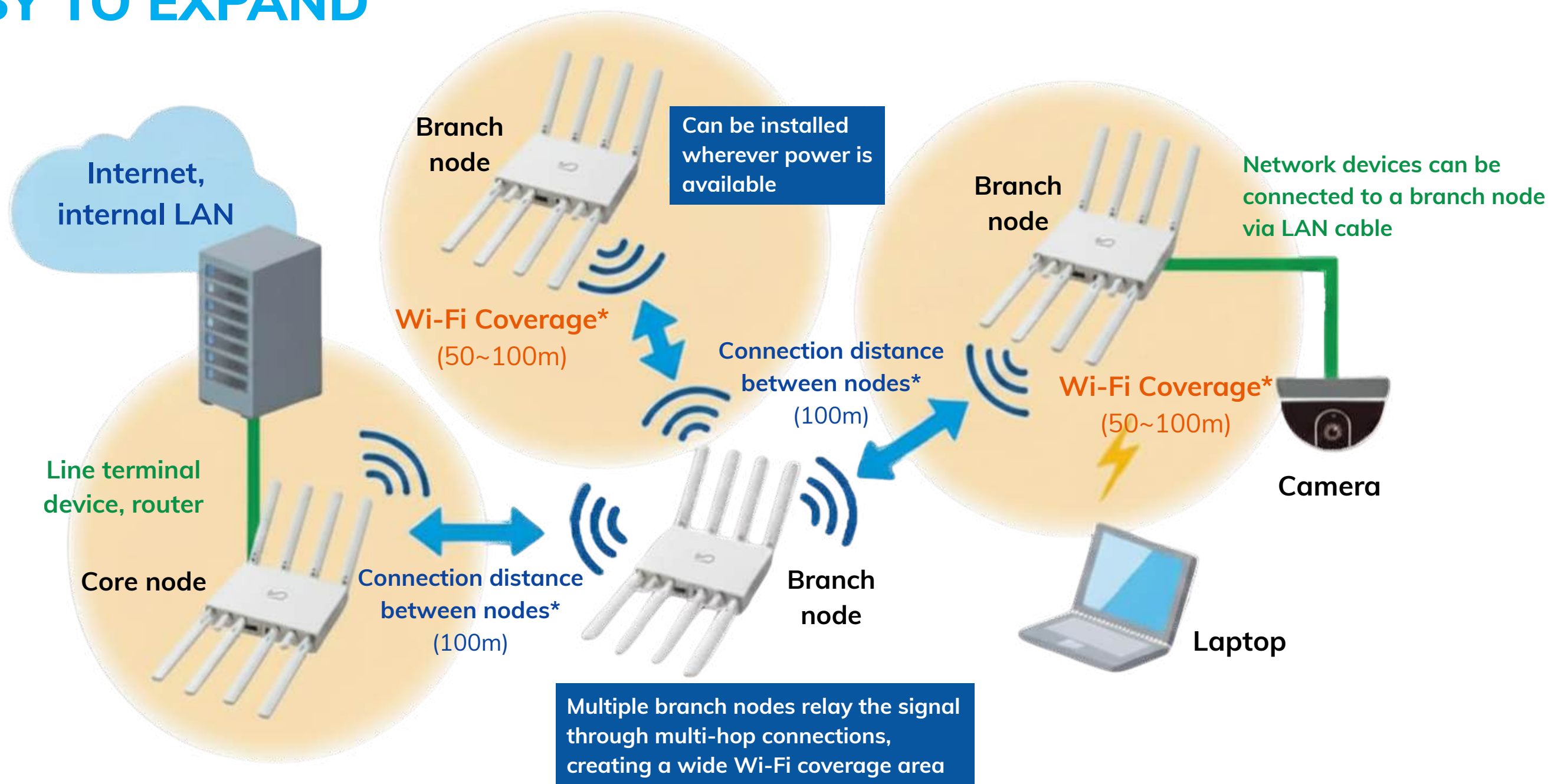
PicoCELA automatically selects the best transmission route between devices, helping maintain a stable connection even when the radio wave fluctuations

Stable data transmission, low latency

- PBE technology creates rules to prevent data collisions and transfer data with low latency, maintaining stable bandwidth even across multiple intermediate nodes
- Switching to alternative routes in the event of network failures (Self-healing function)

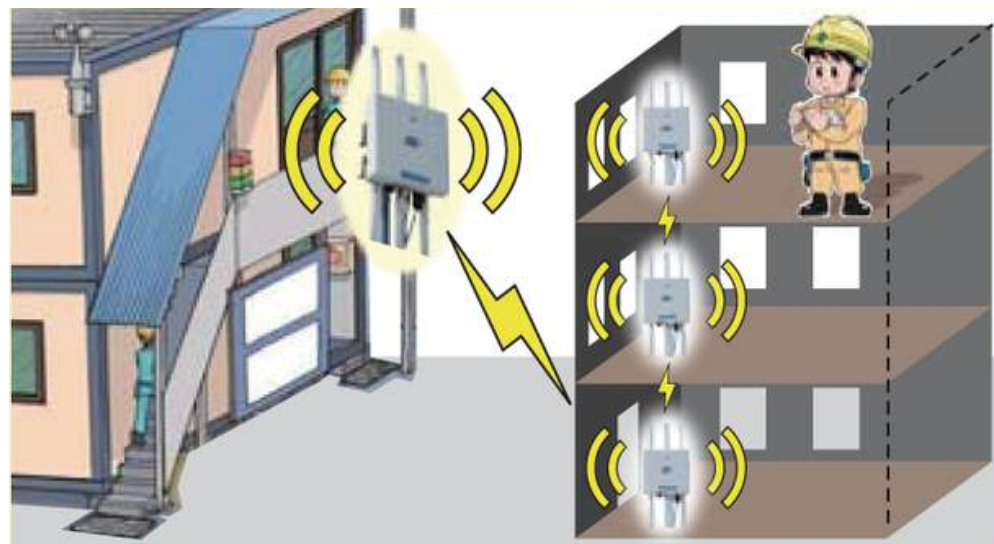


EASY TO EXPAND

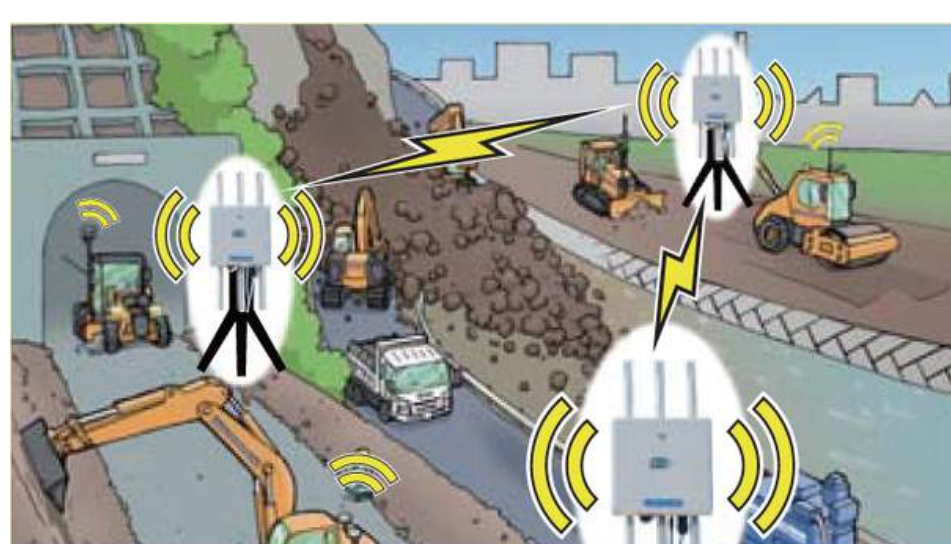


*Model PicoCELA PCWL-0511

CONSTRUCTION & CIVIL ENGINEERING SITES



DIGITAL CONSTRUCTION SITES WHERE EQUIPMENT NEEDS WI-FI CONNECTIVITY

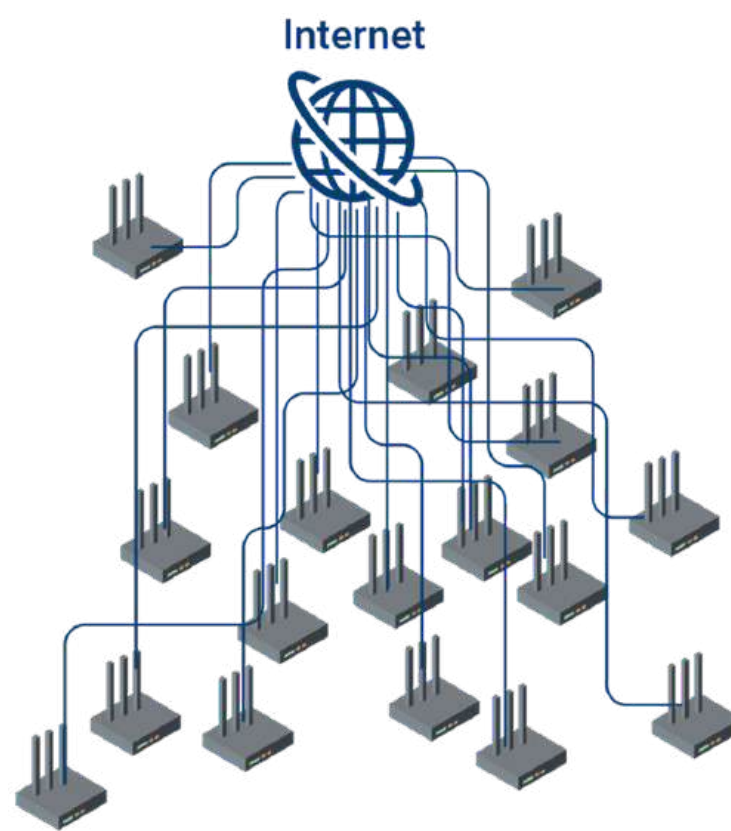


TEMPORARY OUTDOOR EVENTS & EXHIBITIONS

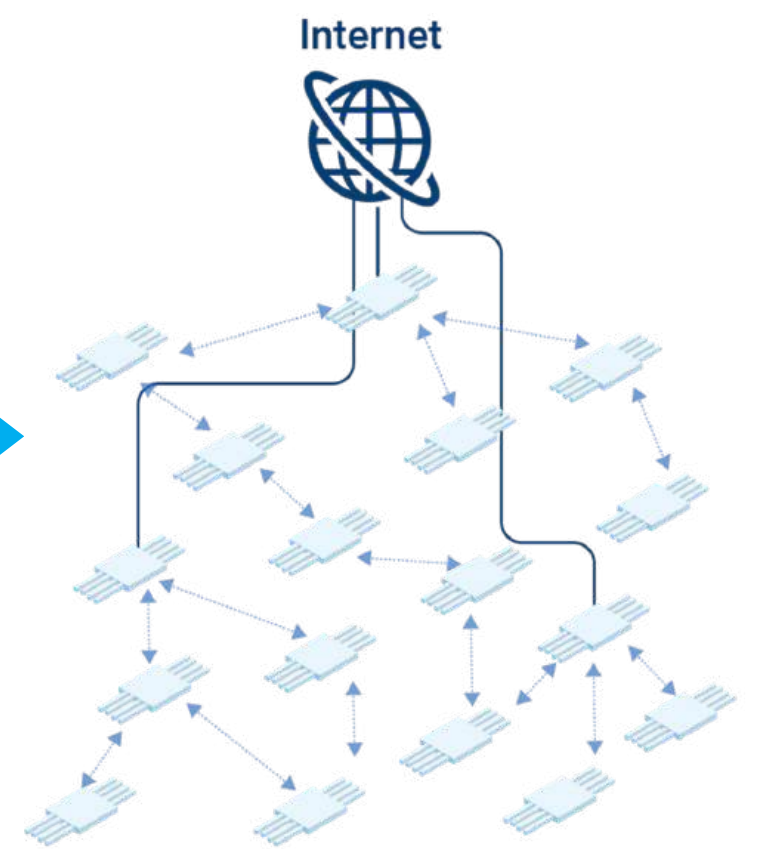


REDUCE LAN CABLING UP TO 90%

- Lower deployment costs
- Save installation time



General Wi-Fi system



PicoCELA

SOME APPLICATIONS

Construction Sites



Durable Wi-Fi access point with dustproof + waterproof protection

Factories



Build a wireless network connecting 3 shipyards within a 2 km radius, including remote islands!

Events/ Exhibitions



Ensure stable network connectivity for large-scale, crowded event venues

SPECIFICATIONS

Brand	PicoCELA		
Model	PCWL-0511 (Outdoor Version)		
Dimensions (LxDxH)	272×248×83 mm (Without antennas); 272×590×83 mm (With antennas)		
Weight	2.2 kg (Without antennas); 2.9 kg (With antennas)		
Wireless Specifications	2.4GHz: 802.11b/g/n/ax 5.0GHz: 802.11a/n/ac/a	PoE	PoE power supply PoE+ (IEEE802.3at)
Throughput	Max 4.8 Gbps	Interface	2.5GbEx 2
MIMO spatial stream	4×4	Power Consumption	Max 30W
Maximum Antenna Gain	2.4GHz: 4.5dBi 5.0GHz: 7.0dBi	AC Adapter Compatible	O Optional
Bluetooth	4.1	Waterproof	IP67
Automatic Channel Recovery	O	Operating Temperature	-30~60°C