

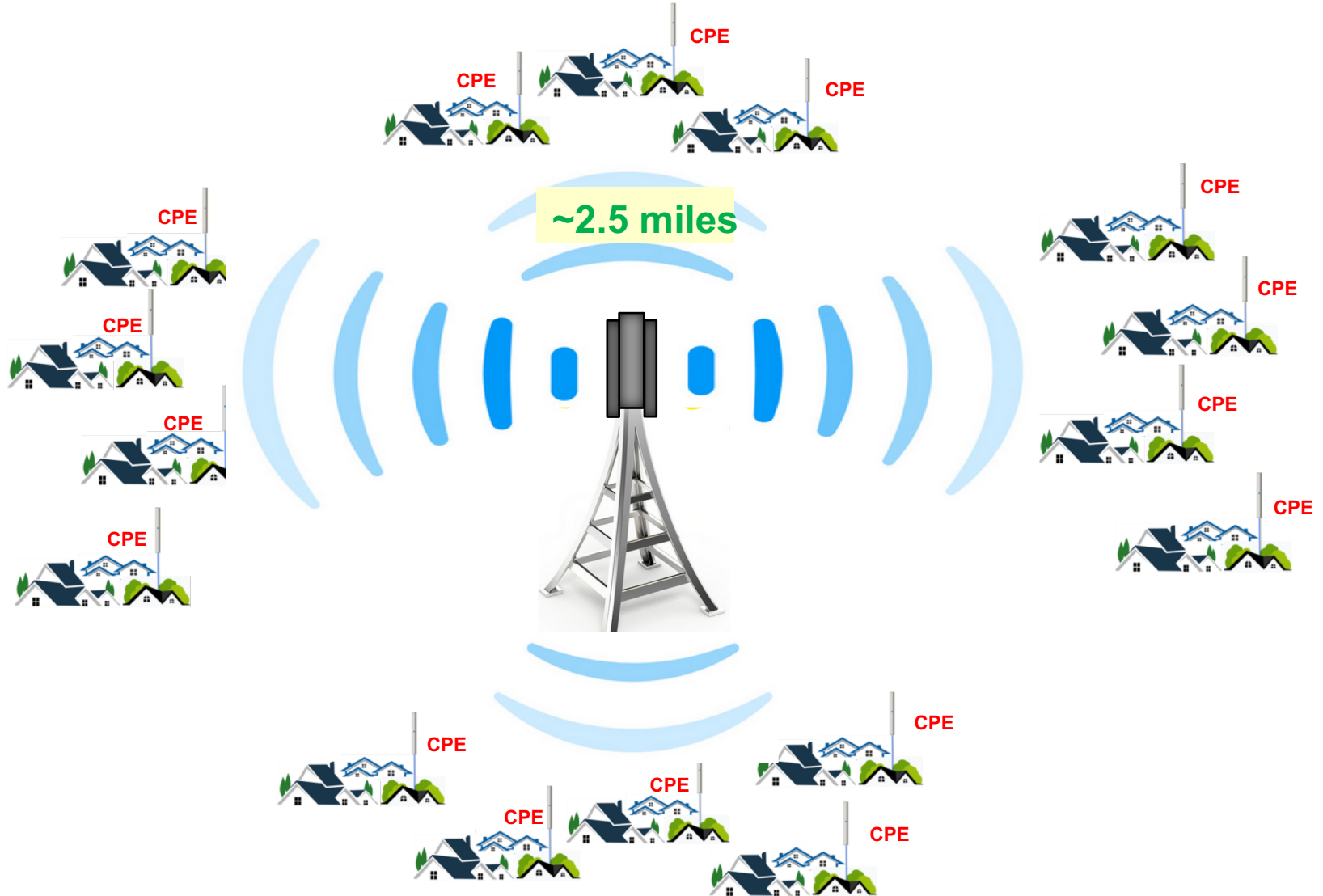


# 1COM Rural Wireless Broadband Access System

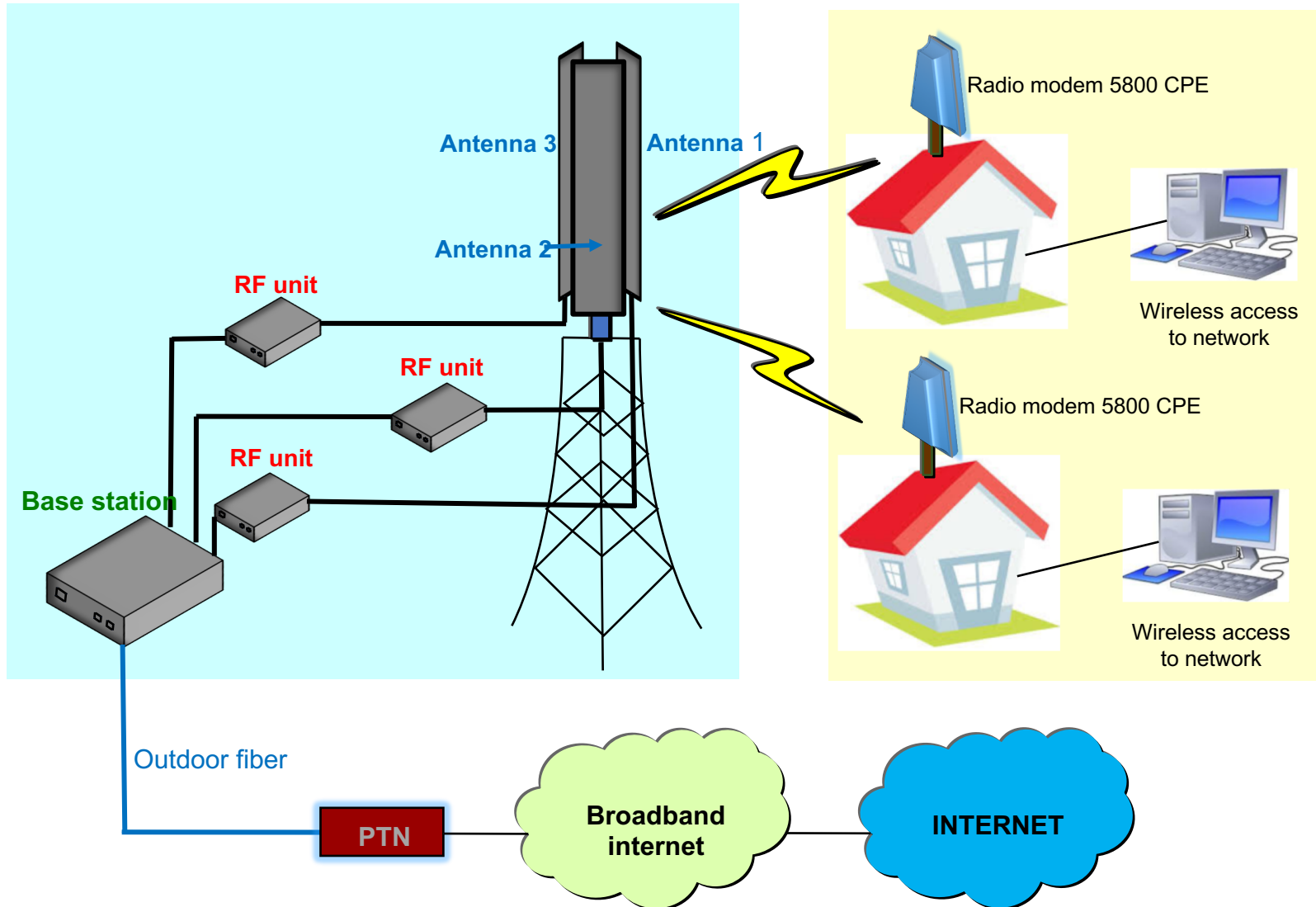
# 1COM Rural Broadband Wireless Access System

- A point-to-multipoint network structure with a carrier-based terminal station and user-based terminal devices
- Using frequency reuse method to build contiguous cellular networks in wide rural areas
- Enhanced 6-cell base station achieving an effective cell tower's range from 1.9 miles (3Km) up to 2.5 miles (4Km)
- High gain 5.1 GHz to 6.0 GHz Broadband Directional Antennas
- Single antenna supporting efficient network access up to 120 users simultaneously
- Single base station supporting concurrent network access up to 300 high-bandwidth users simultaneously
- Single base station topping up to 900 Mbps of actual throughput when multiple users access the network, while each user accesses the network per account priority without distance impact
- User bandwidth variation is less than 10% and network access delay time is less than 10 ms in case of multi-users accessing the network

# 1COM Rural Wireless Network



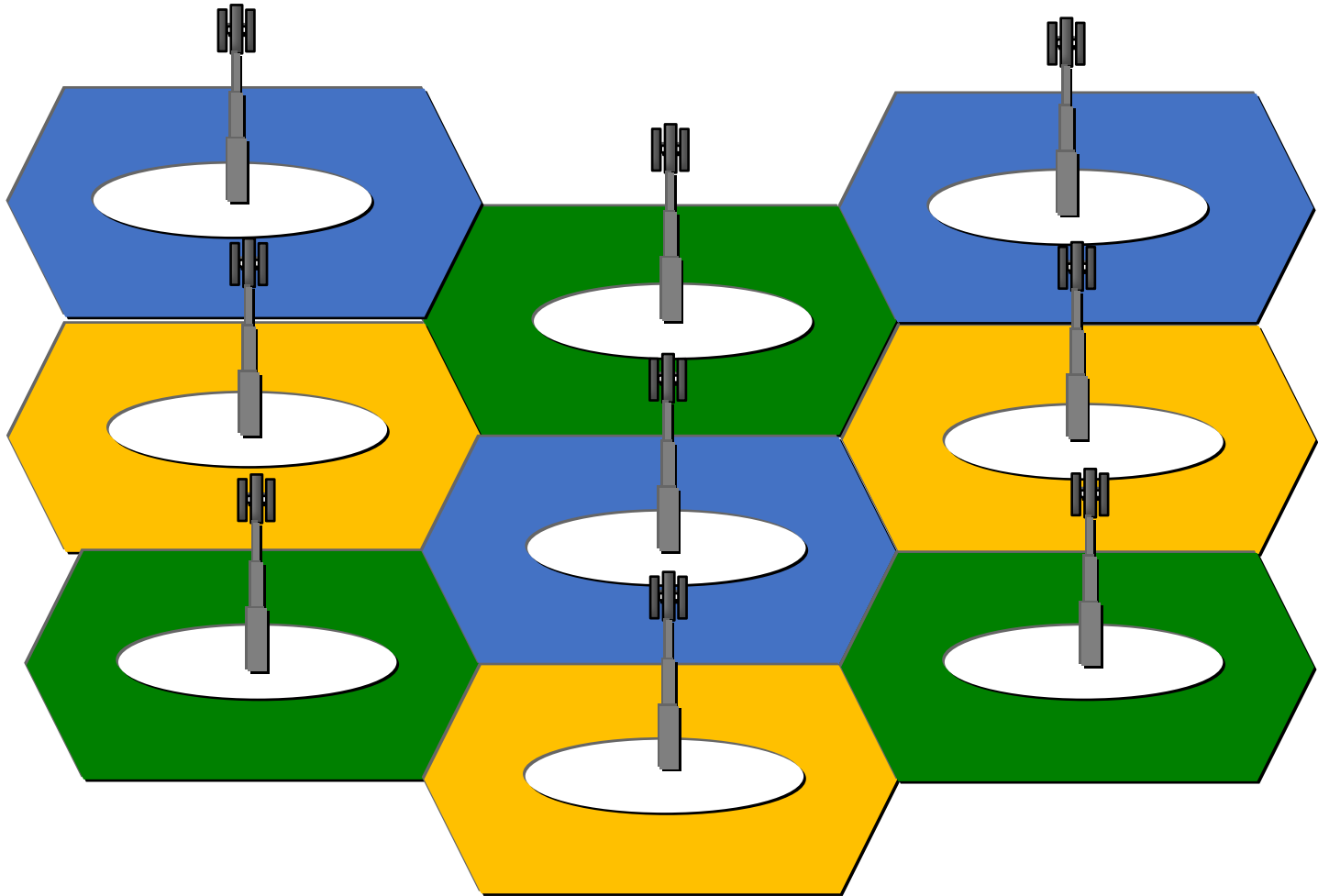
# System Topology



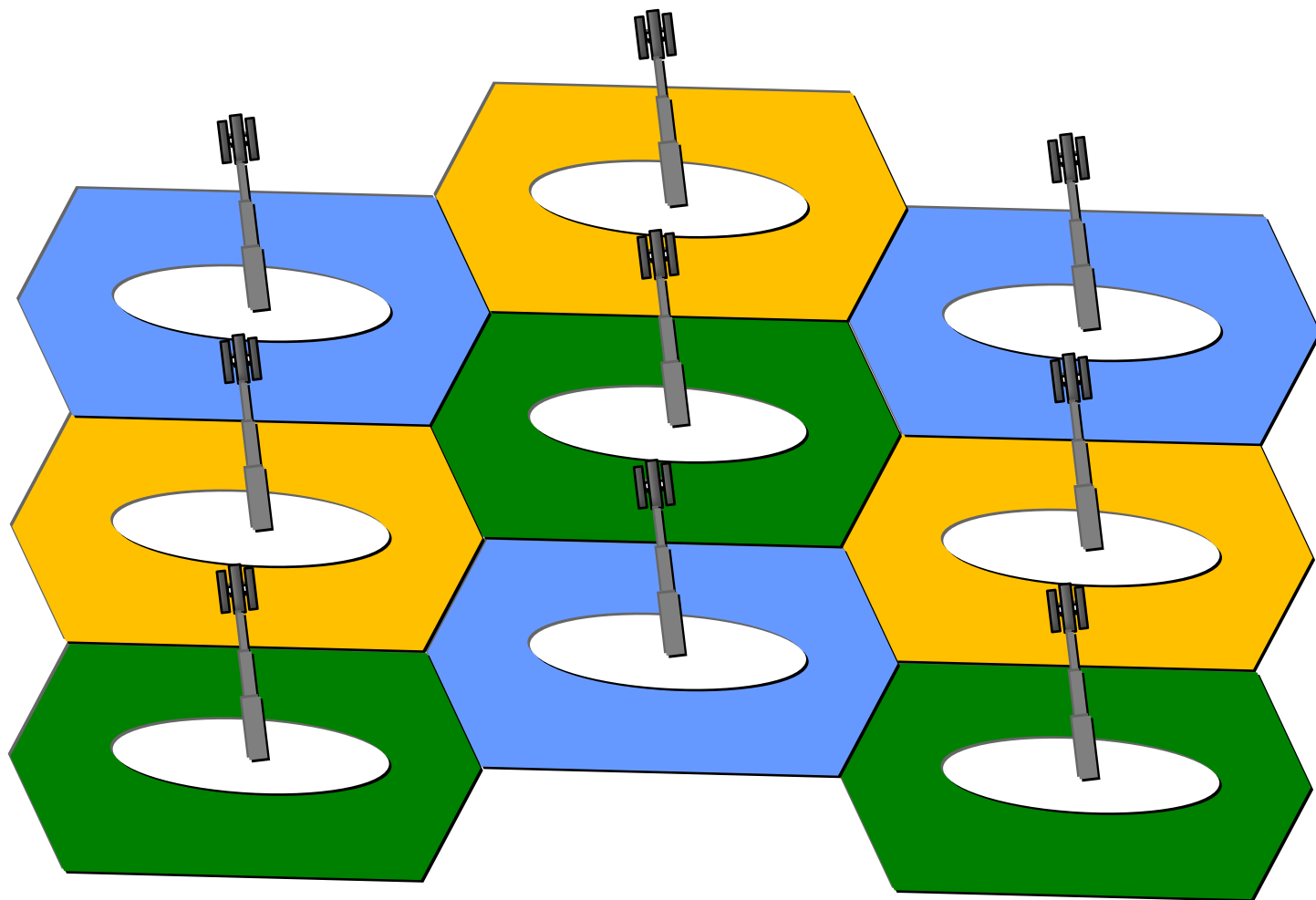
# System Package

Base Station	Radio Modem CPE
<ul style="list-style-type: none"><li>• 6 element base station</li><li>• Central controller supports 3 units</li><li>• 5G, Double spatial stream</li><li>• 20MHz or 40 MHz Channel</li><li>• Total system bandwidth: ~600Mbps-900Mbps</li><li>• Total accessible broadband users: &gt;300</li></ul>	<ul style="list-style-type: none"><li>• 5.8G integrated internal antenna</li><li>• MIMO2*2</li></ul>

## 1COM Urban Wireless Network



Multiple sites in a large urban area can use cellular structure, reuse frequency to increase system capacity



# 1COM Base Station Installation Display



On simple tower



On roof



# 1COM Wireless Access 5800 CPE Installation

