

Spectrum Planning and Access Network Architecture from GZCTV

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Spectrum Planning and Access Network Architecture

- Spectrum planning
- Access network architecture
 - Optical fiber transmission system
 - Coaxial cable distribution system

Spectrum Planning



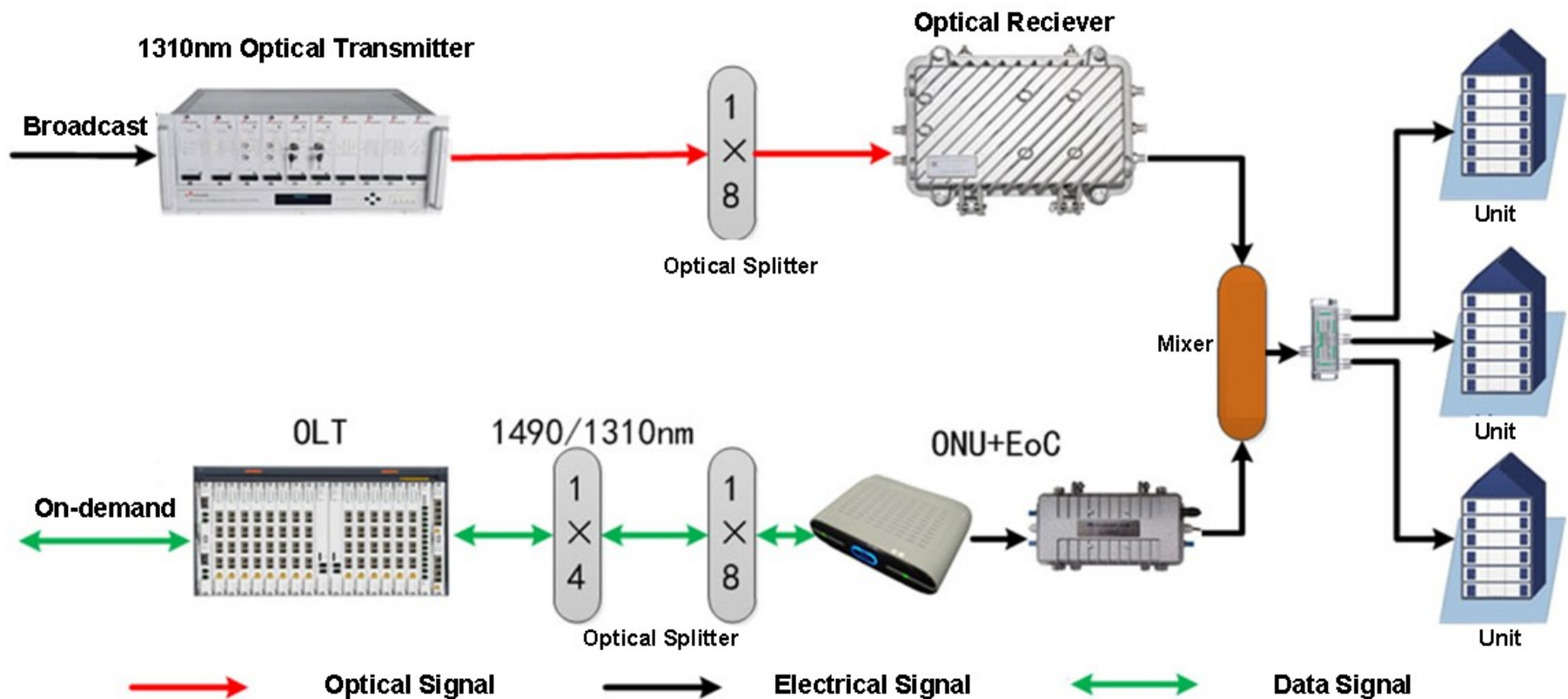
- 5 ~ 65 : EOC (HP AV) or DOCSIS Upstream Frequency
- 115 ~ 171 : Analog TV
- 179 ~ 602 : Digital TV
- 610 ~ 698 : HD Interactive Downstream
- 706 ~ 778 : Special Frequency
- 786 ~ 946 : Reserved for Digital TV

Access Network Architecture

- Optical fiber transmission system
 - 1310nm transmission, EPON+EOC system architecture
 - 1550nm transmission, EPON+EOC system architecture
- Coaxial cable distribution system
 - Tree distribution structure
 - Centralized distribution structure

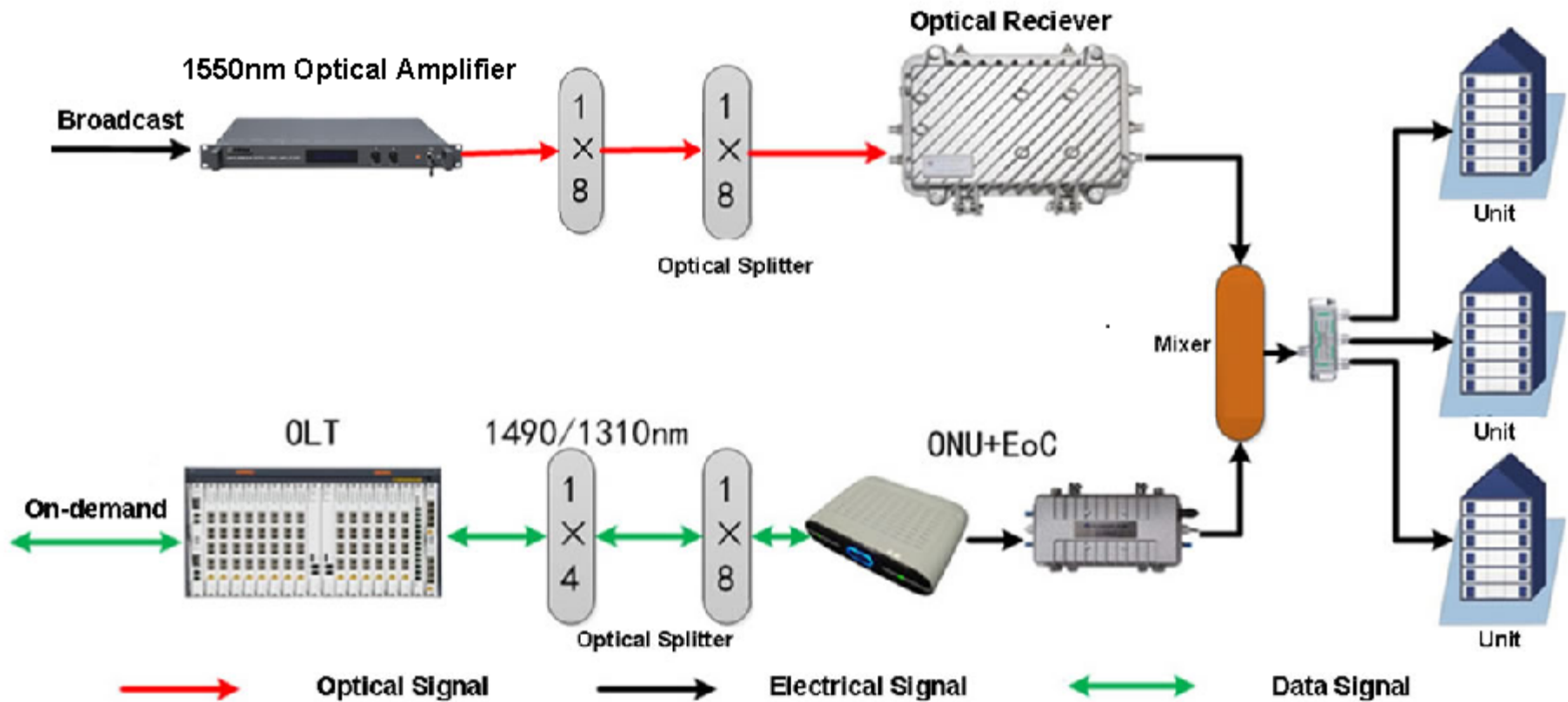
Optical Fiber Transmission System

1310nm transmission, EPON+EOC system architecture



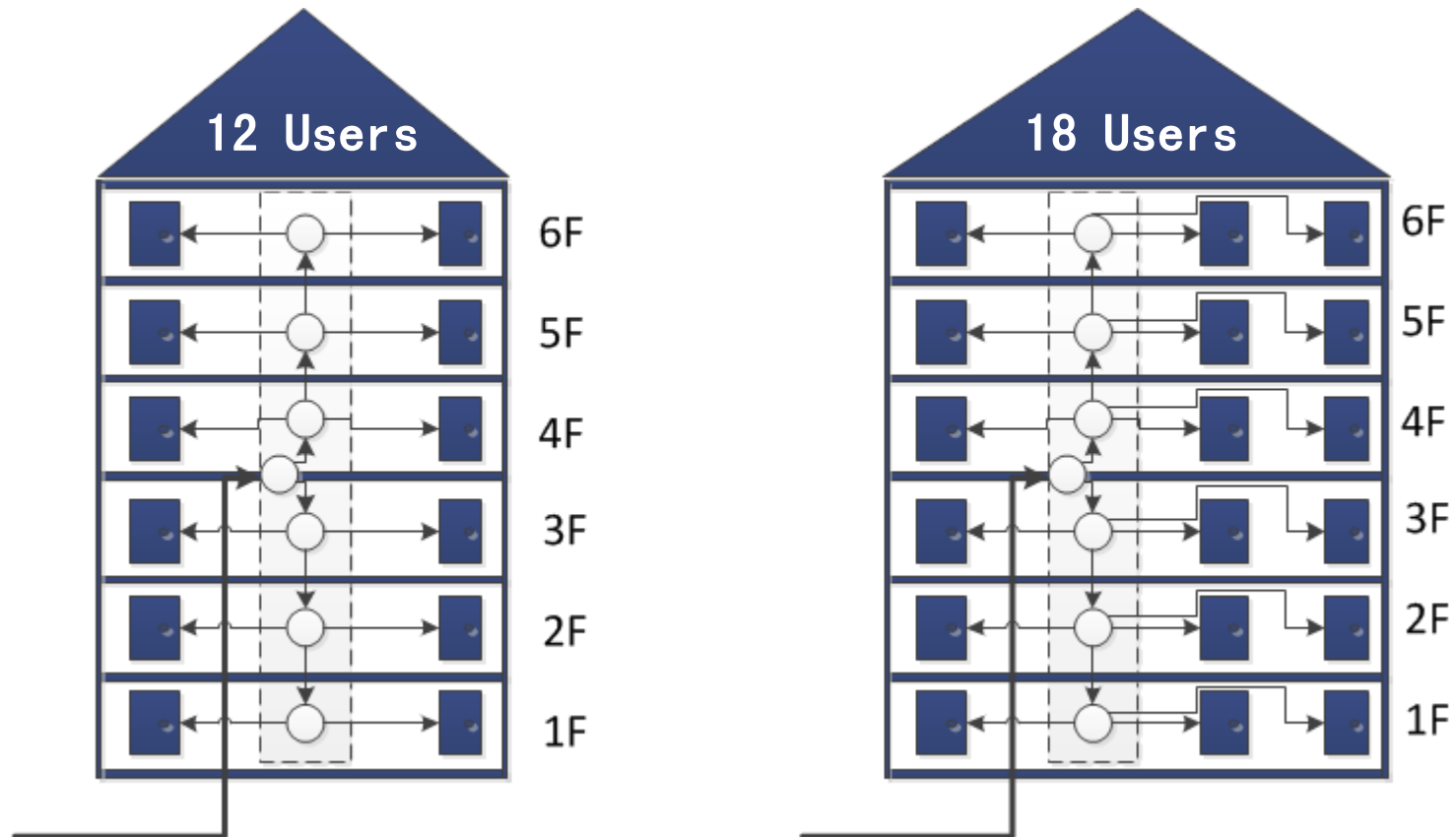
Optical Fiber Transmission System

1550nm transmission, EPON+EOC system architecture



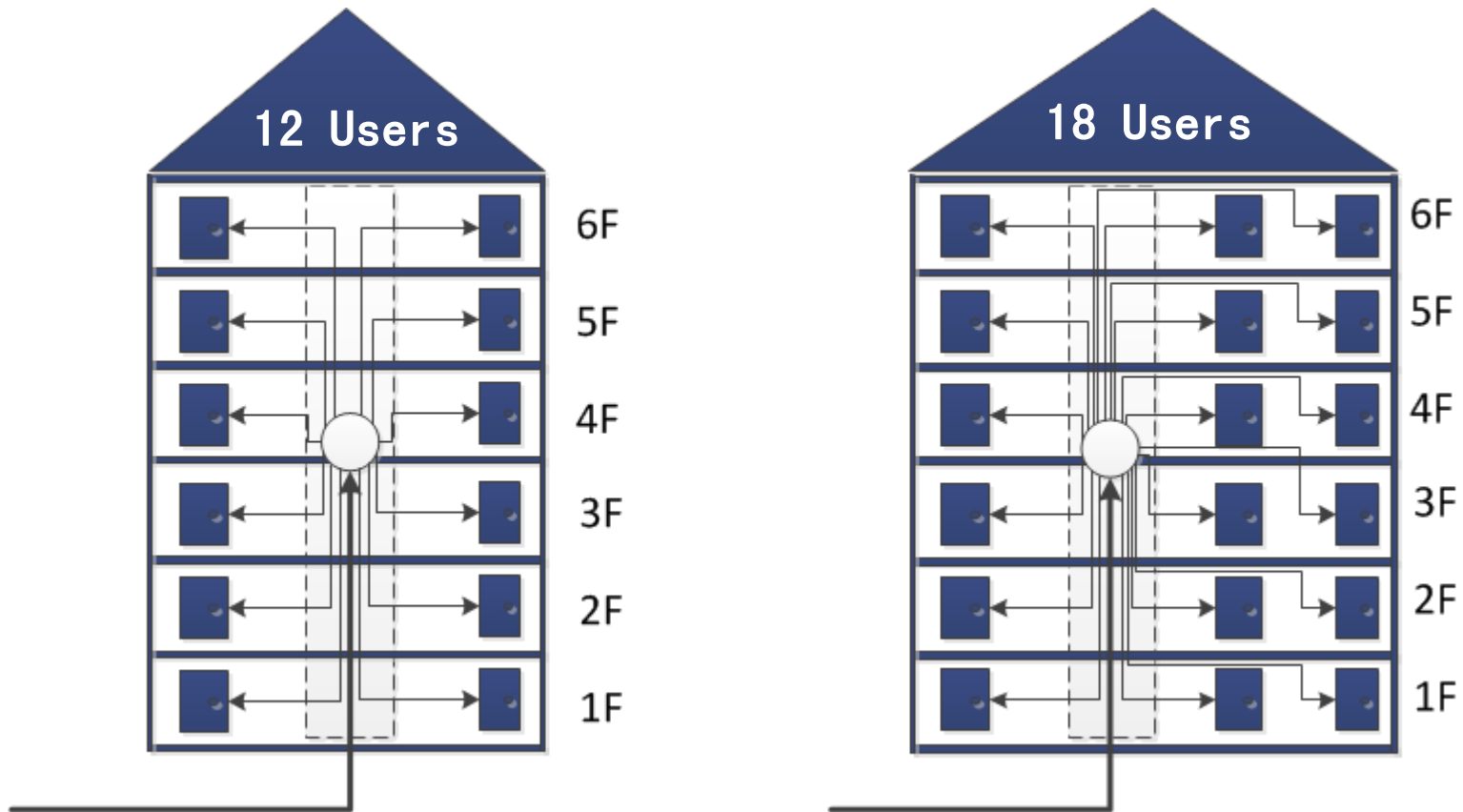
Coaxial Cable Distribution System

Typical tree coaxial distribution structure



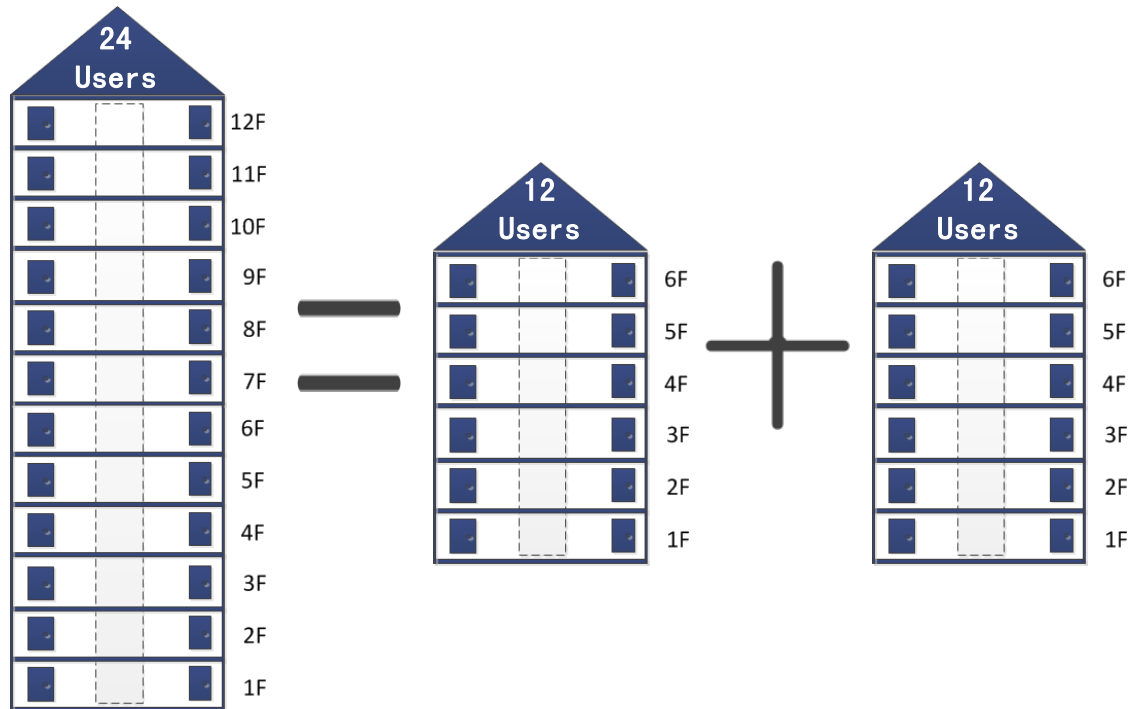
Coaxial Cable Distribution System

Typical centralized coaxial distribution structure



Coaxial Distribution System

Typical building user segmentation scheme I



Coaxial Distribution System

Typical building user segmentation scheme II

