# Comunicación de datos

GPON/FTTH



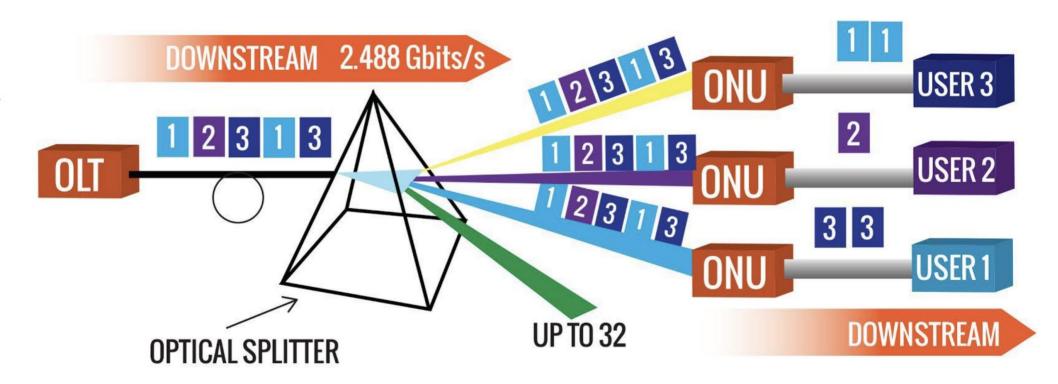
Lic. R. Alejandro Mansilla

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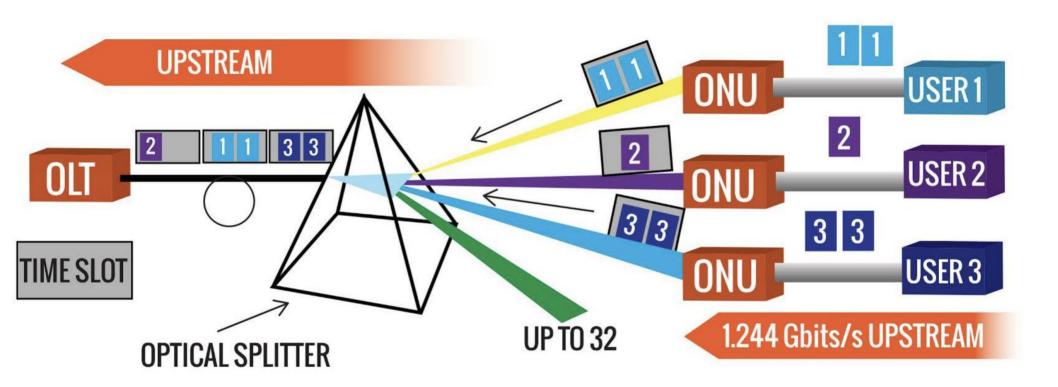
## Conceptos

- •GPON: Gigabit Passive Optical Network
- •FTTH: Fiber to the home
- ·Usa multiplexación TDM para downstream
- •OLT: Optical Line terminator
- •ONT/ONU: Optical Network Terminal/Unit
- •WDM Longitudes de onda usadas:
  - 1490nm para downstream
  - 1500nm upstream
- Bucle de abonada de hasta 20Km sin alimentación

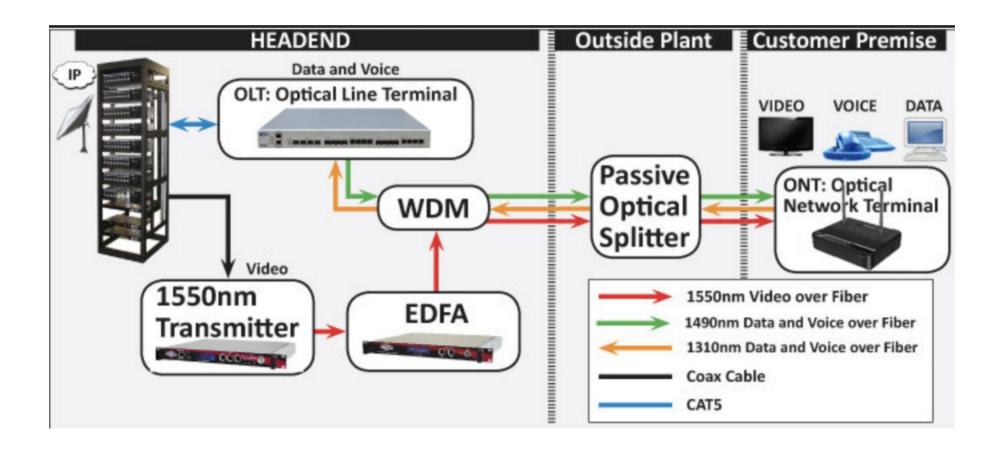
#### Downstream

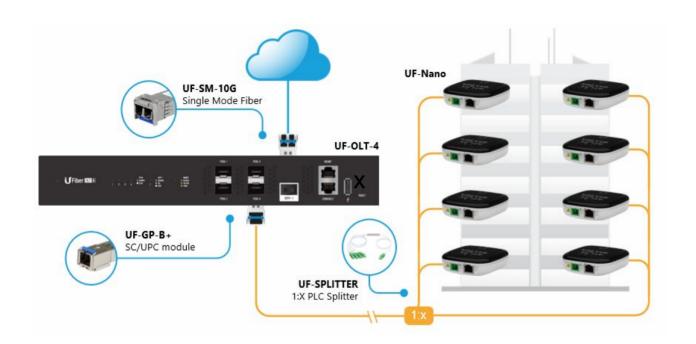


## Upstream



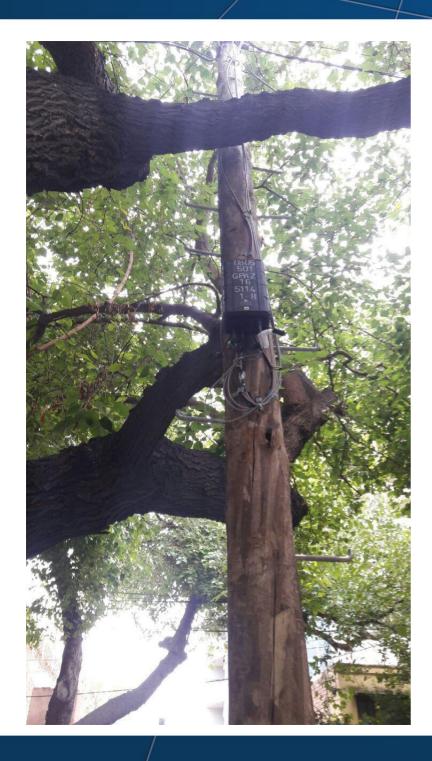
## Esquema de funcionamiento

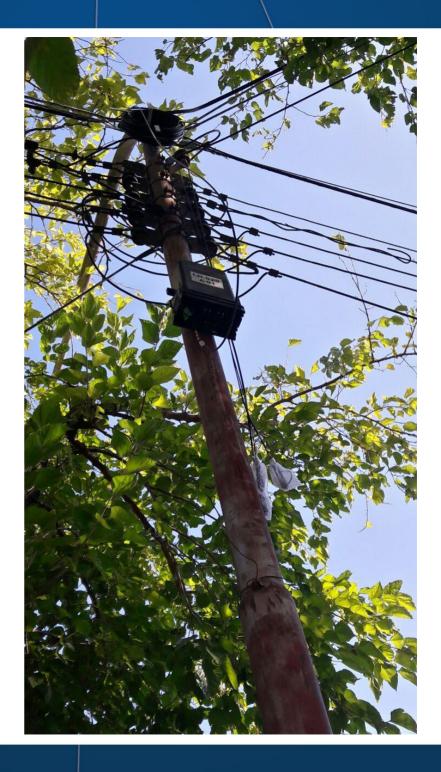












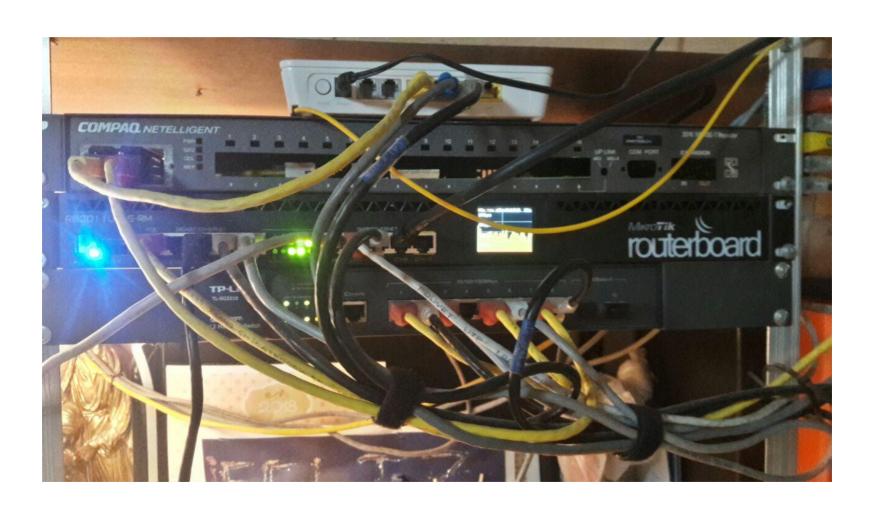








# Rack ad-hoc:)



FIN