

TETRA DIGITAL FIBER OPTIC BDA (BI-DIRECTIONAL AMPLIFIER)

Model: PVL04321D

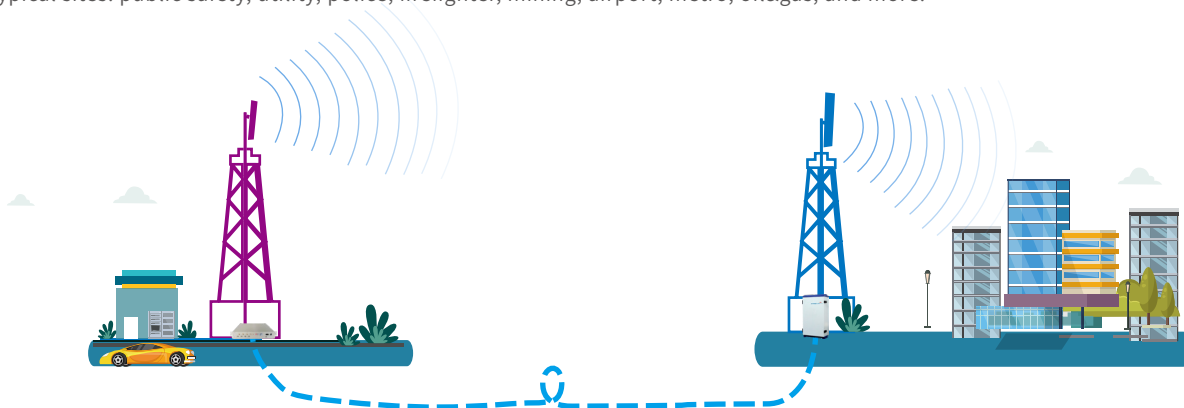
Product Features

- Digital filtering, bandwidth adjustable
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water, and corroding
- Tx/Rx control and alarm messages can be transmitted via one fiber optic cable
- Adopting WDM module to realize long-distance transmission
- Stable and improved signal transmission quality
- 1 MU (Master Unit) can support up to 8 RU (Remote Unit) to maximize utilization of fiber optic cable
- Local supervision by TCP/IP, remote by TCP/IP or modem

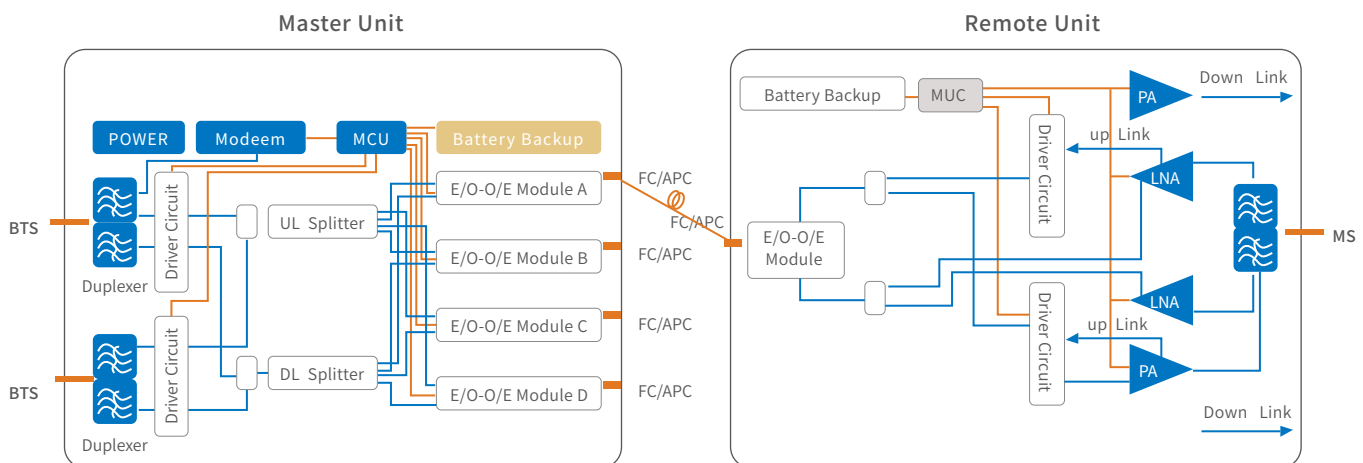


Application Scenario

Typical sites: public safety, utility, police, firefighter, mining, airport, metro, oil&gas, and more.



Block Diagram



Technical Specifications

PVL04321D		Master Unit(MU)		Remote Unit (RU)	
Frequency Range	Uplink	380~385MHz (adjustable)			
	Downlink	390~395MHz (adjustable)			
Maximum Input Power (Non-Destructive)		10 dBm			
Transmission Distance		≤ 20km			
Maximum RF Output Power		-15±2dBm (UL)		43±2dBm (DL)	
Maximum Gain (Cable Access)		50±3dB			
Gain Adjustment Range		1~31 dB @ step of 1 dB			
VSWR		≤ 1.5			
Noise Figure		≤ 6dB (Only for Uplink)			
In-band Ripple		≤ ±3dB			
Spurious Emission		≤ -36dBm			
Third-Order Inter-Modulation		≤ -45dBc / 30kHz			
System Delay		≤ 8μs			
I/O Impedance		50Ω			
Connector	RF Connector	1Xn-Female		1xN-Female	
	Optic Connector	8X FC/APC		1X LC/UPC	
Fiber Optical Type		Single Mode			
Optical Output Power		≥ -9dBm			
Optical Receiver Sensitivity		≤ -10dBm			
Temperature Range		Operation: -25°C ~ + 55°C			
Relative Humidity Range		≤ 95% (non-Condensing)			
Power Supply		AC 220V±44V/50±5Hz			
Power Consumption		≤ 25W		≤ 160W	
Application		Indoor (IP20)		Indoor or Outdoor (IP65)	
Dimensions		330*425*44mm (19"1U)		450*335*180mm	
Weight		8kgs		28kgs	