

## ViaLiteHD<sup>®</sup> – Multizone Distribution Lossless Splitter

### Lossless Optical Splitter

- Point to multipoint
- 4, 8, 16, 32 & 64 way splitting with no loss
- 1550 nm or C-Band DWDM wavelengths
- Compatible with any RF frequency
- 1U & 2U Rack Chassis
- Standard 5-year warranty

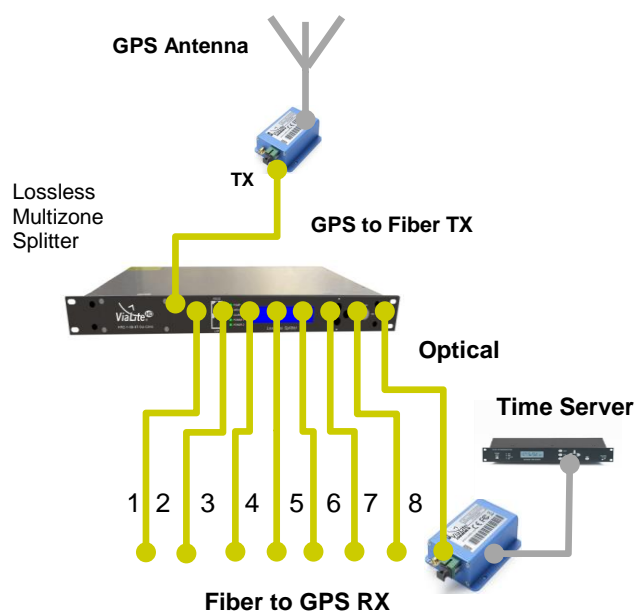


The **ViaLiteHD** Multizone Distribution Lossless Splitter allows for multiple receive points to be supplied by one transmitter with zero optical loss. It can be used with any **ViaLiteHD** RF over fiber frequency band, but is typically used in any fan-out application in satcom or timing applications, such as GPS or 10 MHz reference. The lossless splitter utilizes the low loss 1550 nm wavelength or any of the ITU DWDM channels for longer distances.

When used with a combiner, zero loss is possible with fan-in/fan-out and combined transmit and receive systems. These systems are designed with a focus on datacenter timing, satcom, cellular and public safety applications. The lossless optical splitter is supplied with SC/APC connectors with 4, 8, 16, 32 or 64 outputs.

### Features/Options

- Rack mountable
- Compact Design
- High channel isolation
- Point to multipoint
- 1550 nm or DWDM wavelengths
- Compatible with any RF frequency
- SC/APC Optical connectors
- Ethernet Management and monitoring
- Input Power Level:
  - Up to 3mW
  - Up to 10mW (4, 8 & 16 Way)



### Applications

- Fixed satcom earth stations and teleports
- Data center timing
- Banking institution timing
- Scientific timing distribution
- Cellular test environments
- Cellular in-building distribution
- Oil and gas platforms

### Formats

- 1U Chassis (4, 8, 16 & 32 Way)
- 2U Chassis (64 Way)

# Multizone Distribution Lossless Splitter

## Technical Specification

Performance			Index		
			Min.	Typ.	Max.
Optical Features	Wavelength (C27-H42) – Standard Range	(nm)	1543		1556
	Wavelength (C21-H52) – Extended Range	(nm)	1535		1561
	Noise Figure	(dB)	4		6
	Polarization Dependence Loss (PDL)	(dB)			0.3
	Polarization Dependence Gain (PDG)	(dB)			0.3
	Polarization Dependence Dispersion (PMD)	(ps)			0.3
	Input/output Optical Isolation	(dB)	30		
	Pump Power leakage	(dBm)			-30
	Echo loss (APC)	(dB)	55		
General features	SNMP network management interface		10/100M Ethernet (RJ45)		
	AC Power Inlet Connector		IEC 60320 C14 (Fused)		
	PSU Nominal Input Voltage	(Vac)	100		240
	PSU Input Voltage Range	(Vac)	90		264
	PSU Nominal Input Frequency	(Hz)	50		60
	PSU Input Frequency Range	(Hz)	47		63
	Power consumption	(W)			30
	Operating temperature	(°C)	-5		60
	Storage temperature	(°C)	-40		85
	Working relative humidity	(%)	5		95
	Operating Altitude	(m)			2000
	Height (1U)	(mm)		43.6	
	Height (2U)	(mm)		88.0	
	Depth	(mm)		250.0	
	Width – Front Panel	(mm)		482.6	
	Width – Rear	(mm)		438.0	
	Net Weight (1U)	(Kg)			4.0
	Net Weight (2U)	(Kg)			8.0
Gain Stability	Absolute Optical Gain (all ports)	(dB)	Nominal $\pm 0.75$ dB max		
	Optical Gain Variation with Time (single port)	(dB)	$\pm 0.1$ dB max, <40 Hz		
	RF Link Gain Variation with Time (single port)	(dB)	$\pm 0.2$ dB max, <40 Hz		