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ViaLiteHD® - Local Integrated GPS Splitter

Local Integrated GPS Splitter

- **1U optical GPS Rack Chassis**
- **Point to multipoint**
- **1x8, 2x8, 4x8, 1x16, 2x16 GPS splitter**
- **Up to 4 GPS receivers**
- **Built-in SNMP card**
- **Splitting with GPS RX gain**
- **Range of RX modules**
- **5-year warranty**

*The **ViaLiteHD*** GPS Splitter (HRK-12-xxx-G9-x-AC) is designed to minimize rack space. The Rack Chassis is available with 1-4 RF over fiber receivers with 8-32 outputs depending on configuration and only uses 1U of rack space. All 8-32 channels can be lossless when paired with correct RX gain on the ***ViaLiteHD*** GPS RF over fiber receiver.

All RF over fiber cards are blind mate, which coupled with ***ViaLite Communications*** long service life, ensures five nines (99.999%) reliability.

The Rack Chassis has dual redundant PSUs, each sold separately (1 or 2 x HPS-1-GPS Power supply modules), as well as built-in SNMP control. It has been designed for easy installation in a GPS fan-out system and is ideally suited to applications where the user requires multiple GPS timing/synchronization in one area. The Rack chassis can be used with a direct GPS link to the roof or combined with the ***ViaLiteHD*** RF over fiber modules. It can feed multiple floors/rooms with up to 32 local GPS connections and no system loss.

Features/Options

- GPS RF Splitter Outputs: 8,16 and 32
- Optical RX: Up to 4 Optical Receivers
- Optical connections: SC/APC
- Built in SNMP control: Internal HRC-3 SNMP
- Mains Power: 240 VAC Dual PSU
- Built in Amplifier: Up to +25 dB Gain
- DC Input: +48 VDC Input

Note: All splitter ports are terminated with a 50 Ohm terminator as standard.

Applications

- Data Center timing
- Banking institution timing
- Scientific timing distribution
- Cellular test environments
- University timing distribution
- Fixed Satcom earth stations and teleports
- Oil and gas platforms
- Big data

Formats

- 1U Rack Chassis

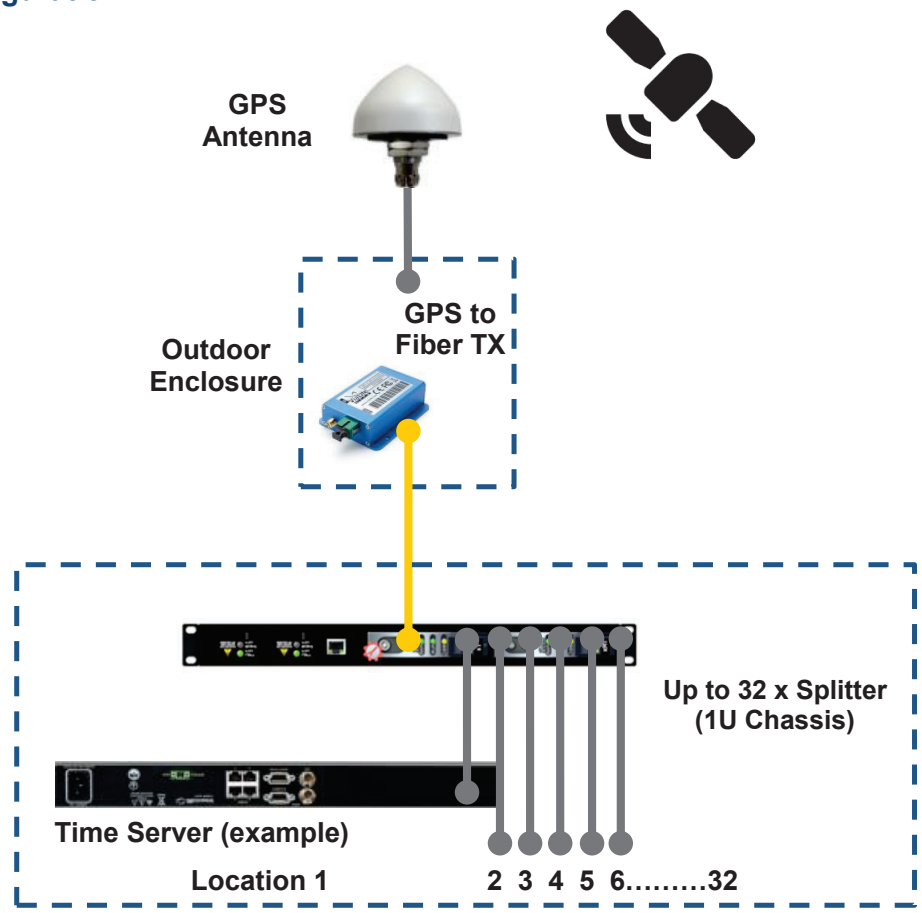
Recommended Rack Chassis Cards

Accepts 2x GPS RX Cards +5 dB (HRR-G1-9E-60-GSR) – Single optical input
Accepts 2x GPS Dual RX Cards +5 dB (HRV-G1-9E-60-GSR) – Dual optical input

Accepts 2x GPS RX Cards +15 dB (HRR-G1-9E-65-GSR) – Single optical input
Accepts 2x GPS Dual RX Cards +15 dB (HRV-G1-9E-65-GSR) – Dual optical input

Accepts 2x GPS RX Cards +25 dB (HRR-G1-9E-66-GSR) – Single optical input
Accepts 2x GPS Dual RX Cards +25 dB (HRV-G1-9E-66-GSR) – Dual optical input

Typical configuration



Technical Specification

	1U Chassis with built-in GPS splitter
Part Number	HRK-12-161-G9-0-AC
Frequency range	1000 -1800 MHz
Gain	+10 dB when Rx card fitted
Gain adjustment range	15.5 dB from Rx card
Number of card slots	2
Number of optical inputs	1-4 (1x single Rx card to 2 x Dual Rx card fitted)
Optical Connectors	SC/APC on HRK-12 Rear Panel (individual Rx cards are LC/APC which are then converted to SC/APC internally)
Return loss	< -20 dB typical
Isolation port to port	< -23 dB typical
Phase balance	< 0.5 dB typical
Power consumption	< 12 W (fully configured)
SNMP Interface	RJ45
Input power	90-265 VAC
Operating temperature range	-20 °C to +55 °C
Storage temperature range	-40 °C to +80 °C
Humidity	95% non-condensing humidity
Dimensions	W:435 mm (19”) x H:44.50 mm (1U) x D:416.8 mm
Weight	7.5 kg