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Decimator D4 DIFI Receiver Option

Specifications

Sample Rate	• Up to 133 Msps
Bit Depth	• Up to 14 bits
Timing accuracy	• NTP (10 ms at Stratum 1)
Number of channels	• 1
Network Bandwidth	• Up to 1 Gbps*
Network Buffer	• Up to 750 MB**
Network Port	• Data port

Examples of bit depth and bandwidth combinations possible for continuous operation:

36MHz wide band => 45Msamples/second .
At 11 bits/sample => 990Mbit/second

54MHz wide band => 67.5Msamples/second.
At 7 bits/sample =>945MBit/second

Operation

A new window on the UI for a DIFI transmitter mode. Allows user to specify:

• Center frequency
• Span
• Bit depth
• Destination address (IPv4/IPv6 address, optional MAC address)
• One of:
  • Continuous (disables all spectrum analyzer functions on the unit)
  • Periodic with a length of capture and a repeat period
  • One time with a length of capture

*NOTE: The Decimator ports are bandwidth limited. Continuous operations will be limited in bandwidth appropriately.

**NOTE: The Decimator is able to buffer a limited amount of data when performing periodic or one time acquisitions. The amount buffered will be dependent on the bit depth and bandwidth.

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