

# VDI 0.5-20 GHz Frequency Counter



## Product Description

VDI frequency counters were designed specifically to measure the fundamental frequencies driving VDI frequency extenders. The design is streamlined to avoid the extra size and cost of unnecessary features. The frequency ranges from 0.5-20GHz for an input power of 0-10dBm. The display resolution is 7 digits, but 32 bits of resolution can be read through a USB cable to a PC. The measurement time can be set to make fast measurements with moderate relative accuracy, such as 4 kHz within 100 mS. The unit is small (3.75x3.75x2") and is powered through a USB cable connected to a computer without the need for a power supply or wall plug. Software drivers are provided that can be used with most programming languages and open source code for the user interface is also provided in Labview 7.0.

- 0.5-20 GHz Frequency Counter
- Compact
- Variable measurement speed
  - 1 ms measurement time → 396 kHz resolution
  - 100 ms measurement time → 3.96 kHz resolution
- USB control with software
- No wall plug or power supply needed

## Data Sheet

- Bandwidth: 0.5-20GHz, SMA
- Input power: 0-10dBm
- Resolution: 7 digits display, 32 bits through USB
- Absolute accuracy: <30 kHz
- Relative accuracy:  $396/(\text{measurement time(S)}) \text{ (Hz)} + \text{internal clock drift}$ , ex. 100mS gives 3.96kHz
- Measurement time: Selectable from 0.4 mS to 26 S, (reads through USB every 1mS)
- Display Calibration Factor: 7 significant digits
- Input impedance: 50 ohm
- Interface: USB control with software for Windows XP. Labview runtime engine 7.0 will be installed. Open source code provided for Labview 7.0.
- Size: LxWxH, 3.57x2.5x1.6 inches
- Current consumption: 200mA



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