

▶ **DESCRIPTION**

Telemakus introduces a range of **USB controlled RF products.**

Many of the common control functions are available in a low cost **USB controlled package.** Functions include **Detectors, Sources, Modulators, Switches and Attenuators.** Drivers and interface software is loaded onto flash memory on the device for easy installation. Any **XP or Vista based PC** can be used as the host and with the addition of a **USB hub** multiple devices can be controlled to build up a complex system of **RF functions.**

Extensive calibration data is held on the devices for correction against frequency, dynamic range and temperature. Custom calibration tables can be downloaded to the device if more accuracy is required over narrow ranges.

If the function or frequency range is not listed please contact Telemakus for custom designs.

Software and driver updates available at [www.telemakus.com](http://www.telemakus.com)

▶ **FUNCTIONS**

- Available Functions
- True **RMS Detectors**
- Step **Attenuators**
- Vector **Modulators**
- Synthesized **Sources**
- Switches

▶ **BENEFITS**

- Common Control Protocol
- Small size (3.4" x 0.875")
- Ease of Use
- Low Cost

▶ **FEATURES**

- Wide Frequency Range 50MHz to 18GHz
- Multiple RF Control functions available
- Windows Drivers stored on product for easy install on any **XP PC**



**TELEMAKUS** LLC

RF DESIGN SERVICES

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# USB PRODUCTS

## True RMS Detectors “uMeter”©

Model	Frequency	Frequency Band	Dynamic Range	Accuracy
TED6000-50	50-6000MHz	L,S,C	-45 - +10dBm	+/- 0.3dB
TED14500-45	14000-14500MHz	Ku	-50 - 0dBm	+/- 0.5dB
TED10200-45	9300-10200MHz	X	-50 -0dBm	+/- 0.5dB

## Vector Modulators

Model	Frequency	Phase Range	gain Range	Resolution
TEV1000-50	700-1000MHz	360 deg	-45 to -10dB	12bit
TEV2700-45	1800-2700MHz	360 deg	-45 to -10dB	12bit

## Synthesized Signal Generator

Model	Frequency	Output Power	Phase Noise @100Khz	Spurious
TEG1000-10	700-1000MHz	10dBm	-95dBc	-50dBc
TEG2700-45	1800-2700MHz	6dBm	-100dBc	-55dBc
TEG10200-45	9300-10200MHz	0dBm	-85dBc	-45dBc

## Digital Attenuators

Model	Frequency	Minimum Loss	Attenuation Range	Step Size
TEA8000-6	2400-8000MHz	-5dB	-31.5 to 0dB	0.5dB
TEA4000-7	50-2700MHz	-2.7dB	-31.75 to 0dBm	0.25dB

## Switches

Model	Frequency	Loss	Isolation	IP3
TES3000-60	100-3000MHz	-1dB	-60dB@1GHz	+50dBm
TES6000-30	50-6000MHz	-1dB	-30dB @6GHz	48dBm

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