

## ▶ USB Products Brochure Rev B July 2009

### 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
<b>TED6000-50</b>	<b>50-6000MHz</b>	<b>L,S,C</b>	<b>-45 - +10dBm</b>	<b>+/- 0.3dB</b>
<b>TED14500-45</b>	<b>14000-14500MHz</b>	<b>Ku</b>	<b>-50 - 0dBm</b>	<b>+/- 0.5dB</b>
<b>TED10200-45</b>	<b>9300-10200MHz</b>	<b>X</b>	<b>-50 -0dBm</b>	<b>+/- 0.5dB</b>

## Vector Modulators

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

## Synthesized Signal Generator

Model	Frequency	Output Power	Phase Noise @100Khz	Spurious
<b>TEG1000-10</b>	<b>700-1000MHz</b>	<b>10dBm</b>	<b>-95dBc</b>	<b>-50dBc</b>
<b>TEG2700-6</b>	<b>1800-2700MHz</b>	<b>6dBm</b>	<b>-100dBc</b>	<b>-55dBc</b>
<b>TEG10200-1</b>	<b>9300-10200MHz</b>	<b>0dBm</b>	<b>-85dBc</b>	<b>-45dBc</b>

## Digital Attenuators

Model	Frequency	Minimum Loss	Attenuation Range	Step Size
<b>TEA8000-6</b>	<b>2400-8000MHz</b>	<b>-5dB</b>	<b>-31.5 to 0dB</b>	<b>0.5dB</b>
<b>TEA4000-7</b>	<b>50-4000MHz</b>	<b>-2.7dB</b>	<b>-31.75 to 0dBm</b>	<b>0.25dB</b>

## Switches

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

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