



### Overview

Telemakus LLC is a contract engineering company specializing in the design of high power linear amplifiers. Telemakus also manufactures USB controlled test instruments including a growing range of synthesized signal sources.

### Synthesized Signal Sources

Telemakus now offers a range of sources from 140MHz to 26500MHz in both sub-octave and multi-octave configurations

The sources have a fixed output power optimized for phase noise and spurious level summarized in the table below. Under GUI control the sources can be swept in 1KHz resolution or operated at a fixed frequency under battery power. Multiple sources can be controlled simultaneously for mixer or multi-tone testing. When combined with the other Telemakus products complete test systems can easily be created.

Model	Specification	Frequency Range MHz	Output Power Typ dBm	Phase Noise @100kHz
TEG250-15		140 to 250	15	-118
TEG700-12		550 to 700	12	-108
TEG1000-10		700 to 1000	10	-105
TEG2700-6		1800 to 2700	6	-105
TEG3500-8		2700 to 3500	8	-105
TEG4000-1		200 to 4000	1	-95
TEG10200-1		9200 to 10200	15	-95
TEG24000-6		22000 to 24000	6	-85
TEG26500-5		24000 to 26500	5	-85
TEX8000-15(Doubler/Amplifier)		200 to 8000	15	-95

Each source has its own 10MHz crystal reference and is both powered and controlled via the USB port. About the size of a flash stick and weighing less than 1oz these sources are highly portable and easy to use. Control software is provided on a 500MB flash drive that is built into the source. This flash drive also contains data-sheet and API drivers compatible with , C++, C#, VB.NET, Agilent VEE, Lab-View® and many other development tools. Telemakus can also provide custom software to help integrate these sources with other control devices and test equipment.

### Other products

Telemakus also offers USB controlled switches, pulse modulators, step attenuators, vector modulators, phase shifters, amplifiers, power sensors and frequency doublers. Other accessories include a 7 port USB HUB, custom USB extension cables, carrying cases and application specific software.

Telemakus LLC is constantly expanding its USB product offerings and can respond quickly to new product requests.

[www.telemakus.com](http://www.telemakus.com)

## USB Controlled Test and Measurement Instruments

Low Cost  
Highly Portable  
Graphical PC Interface  
Customized Test Systems



**US \$315** **RF POWER SENSOR**  
50MHz-6GHz  
50dB Dynamic Range



**US \$320** **SYNTHESIZED SIGNAL SOURCE**  
700-1000MHz **NEW:** 9.3-10.2GHz  
Phase Noise - 105dBc/Hz @ 100KHz **+15dBm \$775**  
**US \$350** 1.8-2.7GHz  
**NEW: Millimeter Wave Source 24-26.5GHz \$1200**



**US \$245** **DIGITAL STEP ATTENUATOR**  
0.05-4GHz  
0.25 dB steps 7 bit

**RF SWITCH**  
0.05-3GHz  
60dB isolation  
0.1-6GHz  
10nS switching  
**US \$245** **NEW: Vector Modulators**

TELEMAKUS LLC

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See demonstration