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RF Meter 3 Click

PID: MIKROE-4906

RF Meter 3 Click is a compact add-on board that collects information, analyzes RF power, and displays information in an easy-to-read digital format. This board features the LT5581, a low-power monolithic precision RMS power detector from Analog Devices. The RMS detector uses a proprietary technique to accurately measure the RF power in a range from 2GHz up to 2.6GHz, well-suited for signals with high crest factors. It outputs a DC voltage in linear scale proportional to an RF input signal power in dBm. This Click board™ is suitable for precision power measurement and control for various RF standards, including GSM/EDGE, CDMA, CDMA2000, W-CDMA, TD-SCDMA, UMTS, LTE, and WiMAX.

RF Meter 3 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

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Specifications

Type	RF meter
Applications	Can be used for precision power measurement and control for various RF standards
On-board modules	LT5581 - RMS power detector with a 40dB dynamic range from Analog Devices
Key Features	Accurate power measurement of high crest factor waveforms, 40dB log linear dynamic range, exceptional accuracy over temperature, low power consumption, log-linear DC output vs input RF power in dBm, and more
Interface	Analog
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

RF Meter 3 click 2D and 3D files

RF Meter 3 click schematic

RF Meter 3 click example on Libstock

LT5581 datasheet