



# Synalyzer 602

## Product overview

### Features:

- Two fully independent RF channels. Each is equipped with a dual RF receiver and RF Synthesizer.
- Each channel can operate in different bandwidth
- Can function as Vector Network Analyzer, Spectrum Analyzer, or RF Synthesiser.
- USB and Ethernet interfaces
- Compact enclosure
- Wide bandwidth 9 kHz to 6 GHz
- SOLT calibration compatible
- Flexible reference frequency input and output
- Easy-to-use software

### Description:

Synalyzer 602 is a complete RF measurements systems connecting the functions of a vector network analyzer, spectrum analyzer, and RF synthesizer. Two independent RF channels allow performing operations impossible with any other single device available on the market. Each channel can perform different functions in a different frequency range, extending the possible applications of typical VNAs and spectrum analyzers.

The device can be remotely controlled through USB and ethernet interfaces.

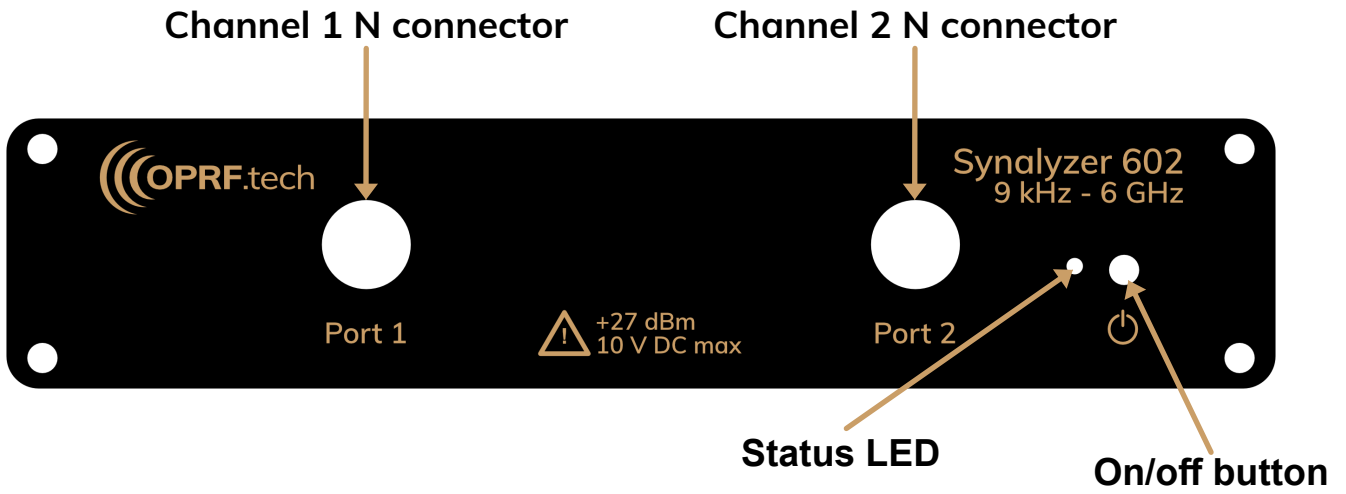


## Basic Parameters

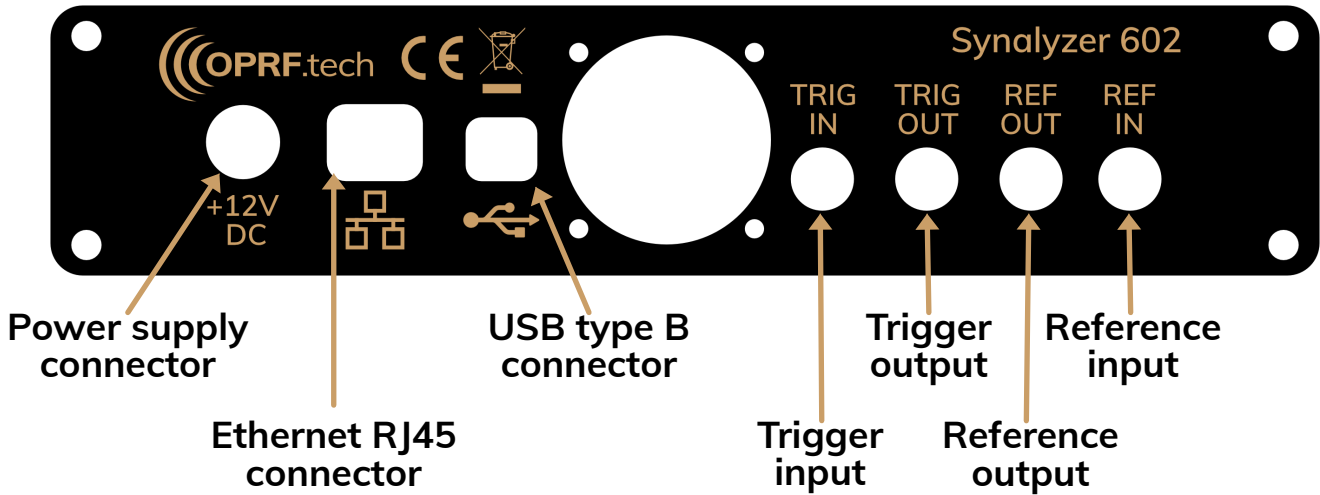
Parameter	Value
Frequency bandwidth	9 kHz - 6 GHz
Number of channels	2
VNA measurement bandwidth	10 Hz - 1 MHz
Spectrum analyzer video bandwidth	10 Hz - 1 MHz
Spectrum analyzer resolution bandwidth	10 Hz - 1 MHz
Reference frequency input	1 MHz - 100 MHz
Reference frequency output	1 MHz, 2.5 MHz, 5 MHz, 10 MHz, 25 MHz, 100 MHz
Maximum output Power (RF synthesiser mode) <ul style="list-style-type: none"><li>• 9 kHz - 10 MHz</li><li>• 10 MHz - 6 GHz</li></ul>	10 dBm 15 dBm
Maximum output power (VNA mode)	6 dBm
Maximum input power	27 dBm
Comunication interfaces	USB 2.0, 10/100/1000 Ethernet
Dimmensions	244 x 246.5 x 64 mm
Weight (without power supply)	1.7 kg

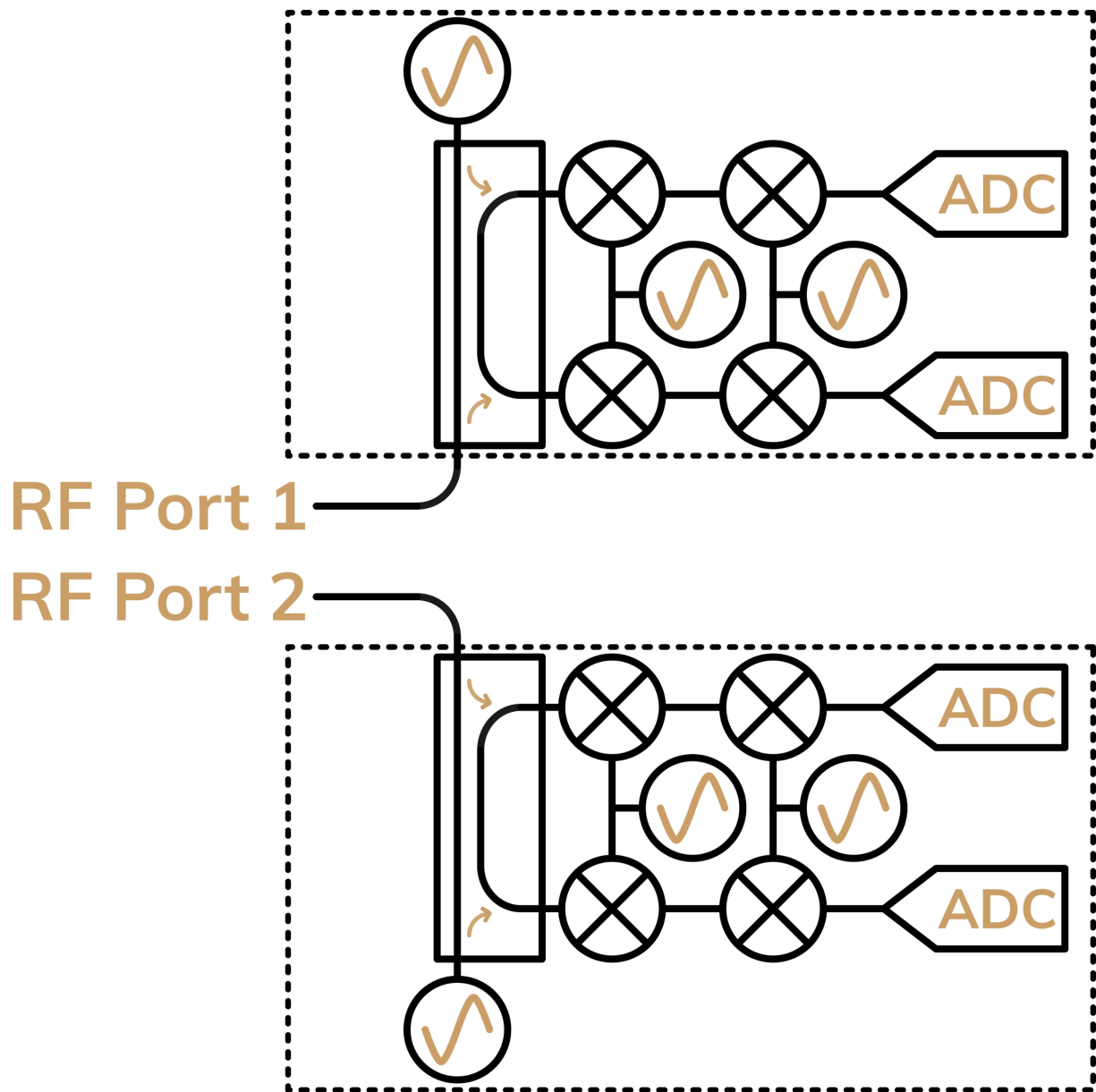


## Front Panel



## Rear Panel





Synalyzer is equipped with two fully independent RF channels, allowing them to perform different operations or work together measuring vector parameters. Each channel has two RF receivers measuring forward and reflected waves utilizing dual frequency conversion, achieving excellent harmonics, and spurious suppression for precise RF measurement.

Each channel can independently work as an RF synthesizer, spectrum analyzer, or 1-port vector network analyzer. The possibility of setting different frequency bandwidths makes Synalyzer a unique tool for measuring RF circuits performing frequency conversion operations like PLLs or down-converters.

When two channels are combined, the device can also work as a 2-port VNA.