



Frequency Extenders up to 500 GHz

VNA & Signal-Generator Extenders · Coaxial up to 67 GHz · Waveguide WR22 to WR2.2

Frequency extenders expand vector network analysers and signal generators into the millimeter-wave and sub-THz range. Coaxial and waveguide-based implementations enable precise measurement where conventional test equipment reaches its limits.

The dual-architecture approach combines coaxial solutions for lower-band extensions with waveguide technology for sub-THz frequencies, letting engineers optimise cost and performance per task.

KEY SPECIFICATIONS

- **Frequency Range**
Up to 500 GHz (waveguide implementation)
- **Coaxial Variant**
Up to 67 GHz, standard connector interfaces
- **Waveguide Standards**
WR22 to WR2.2 and beyond for sub-THz
- **Interfaces**
SMA connectors, standardised waveguide flanges
- **VSWR**
Optimised across extended frequency ranges
- **Amplification**
Integrated LNA and HPA modules available
- **Form Factor**
Compact, bench-top and integrated systems
- **Compliance**
CE declaration for the European market

APPLICATIONS

<p>6G Research & Development Frequency characterisation for next-generation wireless in sub-THz bands</p>	<p>Semiconductor Testing Device parameter extraction and validation at mmWave frequencies</p>	<p>SATCOM Systems Signal-integrity checks for high-frequency satellite equipment</p>
<p>Defense & Aerospace Precision measurements for radar, EW and RF subsystems</p>	<p>Materials Characterisation Dielectric property measurement across wide frequency ranges</p>	<p>Metrology Calibration and validation of high-frequency measurement systems</p>