SIGNAL AND SPECTRUM ANALYZER PORTFOLIO
Version for US

Product Flyer | Version 01.00
## SIGNAL AND SPECTRUM ANALYZERS

### R&S®FSVA3000
- **Frequency range:** 10 Hz to 4/7/13.6/30/40 GHz
- **Performance:** Fast and compact signal and spectrum analyzer with excellent performance and high speed for lab and production applications
- **Specifications:**
  - Sensitivity: > 10 dBm
  - Dynamic range: –165 dBm

### R&S®FSH
- **Frequency range:** 8.3 GHz
- **Performance:**
  - Sensitivity: –150 dBm
  - Dynamic range: –163 dBm

### R&S®FPH
- **Frequency range:** 10 Hz to 4/7.5/13.6/30/44 GHz
- **Performance:**
  - Sensitivity: +10 dBm
  - Dynamic range: –165 dBm

### R&S®FSC
- **Frequency range:** 160 MHz
- **Performance:**
  - Sensitivity: > 17 dBm
  - Dynamic range: > 20 dBm

### R&S®FPL1000
- **Frequency range:** 40 MHz
- **Performance:**
  - Sensitivity: > 20 dBm

### R&S®FSL18
- **Frequency range:** 2 Hz to 3 GHz
- **Performance:**
  - Sensitivity: > 13 dBm
  - Dynamic range: > 146 dBm

### R&S®FPC
- **Frequency range:** 9 kHz to 20 GHz
- **Performance:**
  - Sensitivity: –163 dBm

### R&S®ZVH
- **Frequency range:** 18.15 in × 7.76 in × 16.42 in
- **Performance:**
  - Sensitivity: –146 dBm
  - Dynamic range: –146 dBm

### R&S®ZVT
- **Frequency range:** 15.6 in × 7.0 in × 5.8 in
- **Performance:**
  - Sensitivity: –92 dBc (1 Hz)

### R&S®ZVS
- **Frequency range:** 16.06 in × 7.32 in × 9.25 in
- **Performance:**
  - Sensitivity: –105 dBc (1 Hz)

## Highlights
- High performance analyzer with excellent performance and high speed for lab and production applications
- Signal and spectrum analyzer with excellent performance and high speed for lab and production applications
- Fast and compact signal and spectrum analyzer with good performance and high speed in production and lab setting systems
- General purpose spectrum analyzer
- General purpose spectrum analyzer with optimized tracking generator up to 3 GHz
- Handheld combination analyzer with spectrum analyzer up to 8 GHz
- Handheld combination analyzer with spectrum analyzer up to 2 GHz
- Handheld combination analyzer with signal generator up to 1 GHz
- Handheld combination analyzer with signal generator up to 3 GHz
- Handheld combination analyzer with signal generator up to 8 GHz
- Handheld combination analyzer with spectrum analyzer and signal generator up to 1 GHz
- Handheld combination analyzer with spectrum analyzer and signal generator up to 3 GHz
- Handheld combination analyzer with spectrum analyzer and signal generator up to 8 GHz
- Handheld combination analyzer with spectrum analyzer and signal generator up to 2 GHz
- Handheld combination analyzer with signal generator up to 3 GHz
- Handheld combination analyzer with signal generator up to 8 GHz

## Dimensions
- **R&S®FSVA3000:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®FSH:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®FPH:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®FSC:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®FPL1000:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®FSL18:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®FPC:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®ZVH:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®ZVT:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)
- **R&S®ZVS:** 269 mm × 240 mm × 504 mm (10.5 in × 9.4 in × 19.8 in)

**Note:** The specified data may require special models or options.
Frequency selection guide

<table>
<thead>
<tr>
<th>Model</th>
<th>R&amp;S®ZPH</th>
<th>R&amp;S®ZVH</th>
<th>R&amp;S®FPH</th>
<th>R&amp;S®FSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>List price</td>
<td>$4,505.00 USD (.02)</td>
<td>$8,125.00 USD (.24)</td>
<td>$5,355.00 USD (.02)</td>
<td>$13,640.00 USD (.13)</td>
</tr>
<tr>
<td>(starting at)</td>
<td>$7,130.00 USD (.12)</td>
<td>$10,070.00 USD (.28)</td>
<td>$8,665.00 USD (.06)</td>
<td>$23,080.00 USD (.26)</td>
</tr>
</tbody>
</table>

Minimum frequency

- **CAT/VNA** mode:
  - 2 MHz (model .12)
  - 3 GHz (model .24/.28), 100 kHz (model .13/.30)

- **SA** mode:
  - 5 kHz (model .12)
  - 100 kHz
  - 5 kHz
  - 9 kHz

Maximum frequency:

- 2 GHz
- 3 GHz
- 3.6 GHz
- 4 GHz
- 6 GHz
- 8 GHz
- 13.6 GHz
- 20 GHz
- 26.5 GHz
- 31 GHz

- standard
- ○ with optional upgrade

Functionality selection guide

<table>
<thead>
<tr>
<th>Feature</th>
<th>R&amp;S®ZPH, model .02</th>
<th>R&amp;S®ZPH, model .12</th>
<th>R&amp;S®ZVH</th>
<th>R&amp;S®FPH</th>
<th>R&amp;S®FSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable and antenna measurement</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Transmission/reflection VNA</td>
<td>● (S_{11}, only)</td>
<td>● (S_{11}, S_{21})</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Spectrum measurement</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Digital (mobile) modulation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Interference hunting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Power measurement (built-in/with power sensor)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Pulse measurement</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

- ● functionality available
- ● (CAT/VNA) (SA)
- ● (CAT/VNA) (SA)
- ● (CAT/VNA) (SA)

Model dependent.