

# RTO1000

## Differences between WinXP & Win7

Model	R&S®RTO1000 with Windows XP	R&S®RTO1000 with Windows 7
Operating System	Windows XP Embedded 32 Bit	Windows Embedded Standard 7 64 Bit
Firmware Updates	Stopped with V 2.80	On-going Currently: V 3.35
Installed CPU memory (RAM)	2 GByte	8 GByte
Memory depth (per ch / interleaved)	Standard: 20 MSa / 80 MSa Optional: <ul style="list-style-type: none"> <li>50 MSa / 200 MSa with R&amp;S®RTO-B101 option</li> <li>100 MSa / 400 MSa with R&amp;S®RTO-B102 option</li> </ul>	Standard: 20 MSa / 80 MSa Optional: <ul style="list-style-type: none"> <li>50 MSa / 200 MSa with R&amp;S®RTO-B101 option</li> <li>100 MSa / 400 MSa with R&amp;S®RTO-B102 option</li> <li><b>200 MSa / 800 MSa with R&amp;S®RTO-B103 option</b></li> <li><b>400 MSa / 800 MSa with R&amp;S®RTO-B104 option</b></li> </ul>
FREQUENCY DOMAIN	Spectrum Analysis	FFT Analysis <ul style="list-style-type: none"> <li><b>Spectrogram, automatic peak search, log-log scaling and max-hold available with R&amp;S®RTO-K18 option</b></li> </ul>
	Improvements on the FFT	<ul style="list-style-type: none"> <li>New cursor functionality in FFT to set <b>cursor to center frequency</b> and set <b>frequency to cursor</b></li> <li><b>Coupling of math channels</b> for FFT settings</li> <li>Additional units <b>dbA, dbmA, dbuA</b> in FFT</li> </ul>
TRIGGER	Reset Trigger Event (Advanced trigger mode)	Available When using A/B trigger an optional R event resets the trigger sequence to A.  <b>B event: edge</b>
		Available When using A/B trigger an optional R event resets the trigger sequence to A.  <b>B events: edge, glitch, width, runt, window, timeout, interval, slew rate</b>
TRIGGER & DECODE	MIPI M-PHY	Not available
	Manchester and NRZ	Not available
	SpaceWire	Not available
		Trigger & Decode with R&S®RTO-K44 option
		Trigger & Decode with R&S®RTO-K50 option
		Trigger & Decode with R&S®RTO-K65 option

<b>Improved User Interface</b>		<ul style="list-style-type: none"> <li>• <b>App Cockpit:</b> For easy selection and configuration of measurements or analysis functions</li> <li>• <b>Simplified Settings Dialogs</b> for ease of use</li> <li>• <b>Easy docking of measurement results</b></li> <li>• <b>Activity indicator in settings dialogs</b> for active channels, measurements, math channels</li> <li>• <b>Changed value</b> is highlighted in signal icon</li> <li>• <b>Improved color and graphics concept for icons</b></li> <li>• <b>Gate measurements</b> by just drawing the area with the finger</li> <li>• Creation of <b>rectangle mask</b> by drawing the area with the finger</li> </ul>
<b>Signal bar</b>	Signal bar always provides information on horizontal scaling, acquisition and trigger settings as well as on channel coupling, vertical scaling, offset and position.	Signal bar always provides information on horizontal scaling, acquisition and trigger settings as well as on channel coupling, vertical scaling, offset, position, <b>bandwidth, trace arithmetic and decimation mode.</b>
<b>Functional Improvements</b>		<ul style="list-style-type: none"> <li>• Support of <b>channel inversion</b></li> <li>• <b>Moving cursors in continuous roll mode</b> without discarding acquisition</li> </ul>
<b>Remote Control Operation</b>	Possible after manual installation of VNC software	<b>Remote Desktop Function.</b> No need of additional VNC-software
<b>2.5G/5GBASE-T Compliance Test</b>	Not available	Available with R&S®RTO-K25 option
<b>eMMC Compliance Test</b>	Not available	Available with R&S®RTO-K92 option
<b>Running PC applications on the Scope</b>	Not possible	<p>Possible, i.e.:</p> <ul style="list-style-type: none"> <li>• R&amp;S®<b>ScopeSuite</b> for Compliance Tests. An additional PC is not needed anymore.</li> <li>• R&amp;S®<b>VSE</b>: vector signal explorer software, i.e. advanced pulse analysis with R&amp;S®RTO</li> </ul>

**Update price to Windows 7 RTO-U1\*: 730 €**

\* R&S®RTO-U1 comprises the upgrade of the CPU memory and the operating system.