

RadiCentre®

The Heart of each EMC Test System Flexible • Versatile • Extensible

EMC test systems can vary from simple systems with one or two instruments to complex installations with many measurement instruments connected. In order to enable full automated testing, these devices and measuring instruments, as well as the connections made between amplifiers, power meters, antennas and measurement receivers, should be controlled in an automated manner. Where RadiMation® acts as the software centre of the system; the RadiCentre® systems are the core of the hardware.

Flexible

To cover both single instrument applications as well as EMC test systems the RadiCentre® mainframe is available as a one-slot (CTR1001S) or nine-slot version (CTR1009B). Each slot can be configured at the user's choice with different plug-in cards allowing any combination of functionality.

Extensible

The RadiCentre® is expandable with many different plug-in cards.

- RadiSense® the range of LASER powered E-Field Sensors up to 18 GHz
- RadiLink® the analogue fibre optic link till 3 GHz
- RadiMate® the four channel AD/DA converter for EUT monitoring
- RadiPower® the range of RF power meters for EMC applications up to 18 GHz
- RadiGen® the RF signal generator for EMC applications up to 6 GHz
- RadiSwitch® to switch two, four or six RF signals up to 18 GHz / 150 W
- RadiControl® Antenna Tower/Positioner and Turntable controller



Space effective

Where in general controllers, probes, switches and other equipment take one or more units in a 19-inch cabinet, the RadiCentre® systems allow for combining up to seven devices in just three units height (3U). The RadiCentre® is available in both a desktop and 19-inch rack mountable version with either one or seven free plug-in card slots (the CTR1009B uses two of the nine slots for a power supply and PC interface plug-in card).

Easy to use

The system is "Plug and Play", which means that every board is automatically recognized, initialized and ready for use. The user can configure and control the system by means of a clear and easy to use TFT touch screen (CTR1009B).

Software support

The RadiCentre® is software controllable with RS-232 and USB. The CTR1009B can be controlled by LAN and IEEE-488 (optional). Besides the RadiMation® integral EMC measurement software, the system can be controlled by all EMC measurement packages, as all software codes to control the unit are available.

Linux Based & Software upgrades

The system is Linux based thus offering great stability and fast start-up times. As all embedded software is stored in flash, it is very easy to upgrade the system with new versions, thus protecting the initial investment.



Dijkstra Advice, Research & EMC Instruments B.V.
Vijzelmolenlaan 7 - NL-3447 GX Woerden
The Netherlands
Tel: +31 (0) 348 41 65 92
Fax: +31 (0) 348 49 97 32
Internet: www.dare.nl
E-mail: instruments@dare.nl

The Standard for Consultancy, (Re)design
and Training in EMC and Product Safety

DARE!!

Instruments

Technical Specifications

RadiCentre® Modular EMC Test Systems

Performance	CTR1001S	CTR1009B
Slots for Plug-in Cards	1 free configurable slot	7 free configurable slots
Display (TFT touch screen)	NA	7" TFT/WVGA (800x480)
Backplane		Intelligent versatile backplane
Processor		800 MHz Vortex 86DX CPU
Memory		256MB DDR2 RAM, 256 MB Flash
Operating System		Linux
Model		Desktop

Dimensions		
Height	50 mm	132 mm (3U)
Depth	254 mm	312 mm excluding projections
Width	180 mm	19" (rack mountable)
Weight	1,4 kg	Approx. 7 kg (empty)

Environmental conditions		
Temperature range	10 ⁰ C - 40 ⁰ C	
Relative humidity	10% – 90% (non-condensing)	

Power consumption		
Supply voltage	12 VDC	115 VAC / 230 VAC
Power consumption, standby	NA	< 0,5 W
Power consumption, empty	NA	33 W
Power consumption, maximum load	24 W	180 W

Interfaces & cables		
Interface	RS-232 & USB	RS-232, USB and LAN. IEEE-488 optional
Connectors	DC-Power, Sub D-9, USB-B 1.1	IEC Inlet, 2x USB-A 2.0, USB-B 1.1, LAN, Sub D-9, IEEE-488 (optional) and Interlock
Cables	RS-232 cable, AC/DC Adapter	RS-232 cable, IEC power cord

Safety		
Interlock	External Interlock & Interlocked LASER outputs	

Warranty		
Warranty	3 years (misuse excluded)	

Plug-in cards		
RadiSense®	the LASER powered range of EM Field Sensors (4, 6 and 18 GHz)	
RadiLink®	the analogue optic fibre link to 3 GHz	
RadiMate®	the four channel AD/DA monitor for EUT monitoring applications	
RadiPower®	the range of power meters up to 18 GHz for EMC applications	
RadiGen®	the range of RF signal generators up to 6 GHz for EMC applications	
RadiSwitch®	to switch two, four or six RF signals up to 18 GHz / 150 W channels	
RadiControl®	Antenna Tower and Turntable controller	

More information

For more information contact:

D.A.R.E!! Instruments at:

+31 (0)348 41 65 92 or instruments@dare.nl

Internet: www.dare.nl

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Dijkstra Advice, Research & EMC Instruments B.V.
Vijzelmolenlaan 7 – NL-3447 GX Woerden - The Netherlands
Tel: +31(0) 348 41 65 92, Fax: +31 (0)348 49 97 32
Internet: www.dare.nl
E-mail: instruments@dare.nl