

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 while in many cases even a turntable and an antenna mast should be controlled. 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; RadiCentre® is the core of the hardware. With the introduction of the RadiCentre®, cost effective, full automated testing finally becomes a reality.

Flexible

To enable full automated testing the RadiCentre® provides either two or eight versatile slots. Each slot can be configured at the user's choice. The different available plug-in cards can be combined as desired, allowing any combination of functionality.

Extensible

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

- RadiSense® the range of battery free E-Field Sensors
- RadiLink® the analogue fibre link till 3 GHz
- RadiMate® the four channel AD/DA monitor
- RadiPower® the range of power meters for EMC applications
- RadiGen® the signal generator for EMC applications*
- RadiSwitch® to switch two, four or six 18 GHz / 150 W channels

Space effective

Where normally controllers, probes, switches and other equipment take one or more units in a 19-inch cabinet, the RadiCentre® allows for combining two to eight devices in just two to four units height. The RadiCentre® is available in both a desktop and 19-inch rack mountable versions with either two or eight free plug-in card slots.

Easy to use

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

Software support

The RadiCentre® is software controllable with RS-232, LAN and IEEE-488 (Optional for the 2-slot system). 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.

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

DARE!!
Instruments

*) Under development

Technical Specifications

RadiCentre® Modular EMC Test System

Performance	CTR1002A	CTR1008A
Slots for Plug-in Cards	Two free configurable slots	Eight free configurable slots
Display (TFT touch screen)	4,3" Widescreen (480 x 272)	8,4" SVGA (800 x 600)
Backplane	Intelligent versatile backplane	
Processor	400 MHz AMD Alchemy® 32 bits MIPS processor	
Memory	64 MB RAM, 32 MB Flash	
Operating System	Linux	
Model	Desktop or 19" rack mountable	

Dimensions		
Height	2U	4U
Depth	350 mm	350 mm
Width	19" (rack mountable)	19" (rack mountable)
Weight	Appr. 4,5 kg (empty)	Appr. 9 kg (empty)

Environmental conditions	
Temperature range	15° C - 35° C
Relative humidity	10 – 90% (non-condensing)

Power consumption		
Supply voltage	230 VAC	230 VAC
Power consumption, empty	35 W	50 W
Power consumption, maximum load	60 W	180 W

Interfaces & cables		
Interface	RS-232 and LAN (IEEE-488 optional)	RS-232, LAN and IEEE-488
Connectors	IEC Inlet, Sub D-9, Interlock (IEEE-488 optional)	IEC Inlet, Sub D-9, IEEE-488 and Interlock
Cables	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 fibre link till 3 GHz
RadiMate®	the four channel AD/DA monitor
RadiPower®	the range of power meters for EMC applications
RadiGen® (under development)	the signal generator for EMC applications
RadiSwitch®	to switch two, four or six 18 GHz / 150 W channels

More information

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Distributed by:

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