raditeq

Data Sheet

RadiCentre®
Modular Test System

Models - CTR1001S | CTR1004B | CTR1009B

Flexible | Versatile | Extensible

raditeq.com

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 effective fully automated testing, these devices and measuring instruments, as well as the connection as made between amplifiers, power meters, antennas and measurement receivers, should be controlled in an automated manner. Where RadiMation® acts as the brain of the system; the RadiCentre® heart of the system.

Flexible To cover both single instrument applications as well as small or large EMC test systems the RadiCentre® mainframe is available as an one-slot (CTR1001S), four-slot (CTR1004B) or nine-slot versions (CTR1009B). Each slot can be configured at the user's choice with different plug-in cards, allowing any combination of cards.

Extensible The RadiCentre can be extended with a wide array of available plug-in cards.
- RadiSense®   The range of LASER powered E-Field Sensor
- RadiField®   Integrated EMC Immunity Test Solution
- RadiPower®   The range of RF power meters for EMC application
- RadiGen®   The range of RF signal generators
- RadiSwitch®   To switch one, two, four or six RF signal
- 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 as a desktop and 19-inch rack mountable unit. This has either two- or seven configureable plug-in card slots as two of the slots are reserved for a power supply and PC interface plug-in card.

Easy to use The system is "Plug and Play", which means that every plug-in card is automatically recognized, initialized and ready for use. The user can configure and control the card by means of a TFT touch screen (CTR1009B/CTR1004B) or by software.

Software support The RadiCentre® can be controlled by software through USB. The CTR1009B and CTR1004B additionally are controllable through LAN and optionally can be controlled by IEEE-488. Beside our 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 easy to upgrade the system with new versions, thus protecting the initial investment.

RadiCentre® Technical Specifications

Performance	RadiCentre® Pro CTR1009B	RadiCentre® CTR1004B	RadiCentre® Slim CTR1001S
Number of slots in plug-in cards	7	2	1
Display (TFT toch screen)	7" LCD with touch screen		NA
Backplane	Intelligent versatile backplane		NA
Processor	CPU with onboard RAM and Flash		NA
Operating System	Linux		NA
Model	Desktop or 19" rack mountable		Desktop

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

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

Power consumption			
Supply voltage	115 VAC / 230 VAC		12 VDC
Power consumption, standby	< 3 W		NA
Power consumption, empty	33 W		NA
Power consumption, maximum load	225 W		24 W

Interfaces & cables			
Interface	USB and LAN. IEEE-488 optional		USB, RS232
Connectors	IEC Inlet, USB-A 2.0, USB-B 1.1, LAN, IEEE-488 (optional) and Interlock		DC-Power, Sub D-9, USB-B 1.1,
Cables	USB cable, IEC power cord		USB Cable, AC/DC Adapter

Saftey			
Interlock	6,35mm jack plug connection to safty system disables Interlock & Interlocked laser outputs when triggered.		

Plug-in cards			
RadiSense	The LASER powered range of EM Field Sensors (range up to 26 GHz)		
RadiLink	The analogue optic fibre link to 5 GHz		
RadiField	Integrated EMC Immunity Test Solution 1 to 18 GHz		
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 one, two, four or six RF signals up to 40 GHz		
RadiControl	Antenna Tower and Turntable controller card for ETS-Lindgren TM motorbase		

*) After you register your new Raditeq product two (2) years of warranty will be added for free. Registration can be done at: www.raditeq.com