

R&S®CMW-CU Control Unit

Powerful controller for R&S®CMW500 protocol testing



R&S®CMW-CU

Control Unit

At a glance

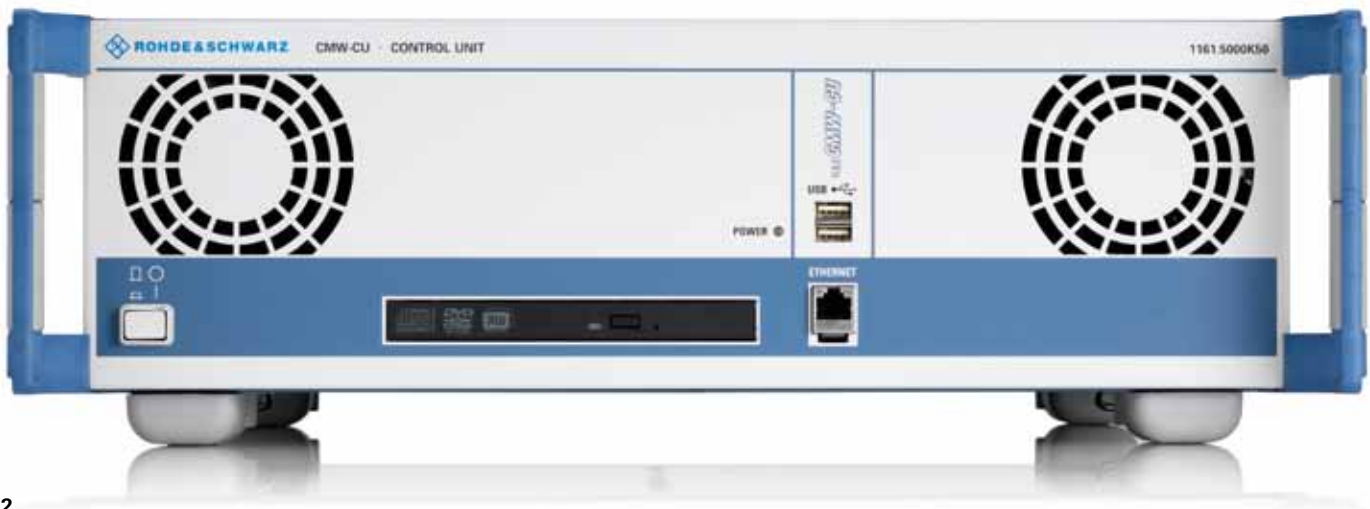
Controllers play a major role in protocol testing applications because they must ensure smooth operation. The R&S®CMW-CU is a controller that meets demanding requirements.

The R&S®CMW-CU is a compact, powerful control unit. It has a large number of interfaces for fast and smooth integration in test environments. The R&S®CMW-CU features excellent EMC characteristics, a wide operating temperature range, a robust design and high reliability.

Flexible expandability and ongoing development assure future sustainability. The controller was entirely developed by Rohde&Schwarz and is made in Germany, which ensures availability of spare parts for years to come.

Key facts

- Maximum reliability due to optimized design and comprehensive production testing
- Long-term availability of spare parts
- Immunity to electromagnetic interference
- Minimum emission due to excellent EMC values
- Energy-saving design to minimize temperature stress on components
- Customized, flexible expansion capability
- Compact design, installable in racks



R&S®CMW-CU

Control Unit

Benefits and key features

Details matter

- Motherboard developed and produced in Germany
- Compact and flexible design
- Excellent EMC values

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Compact and flexible design

- Robust, highly expandable housing
- Wealth of interfaces that meet virtually any need
 - Five USB ports
 - Two independent Ethernet controllers
 - Analog VGA connector and digital DVI interface
 - GPIB interface

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Maximum reliability

Reliability, long life and customer-friendly service are of primary importance, particularly in industry. The R&S®CMW-CU was optimized with these requirements in mind.

Tried-and-tested quality from Rohde&Schwarz

Rohde&Schwarz is well-known for the high quality of its products and has years of expertise in the field of industrial controllers. Values specified in the data sheet such as mechanical resistance, temperature, safety and EMC characteristics are reliably checked and optimized by thorough testing.

The R&S®CMW-CU plays a key role in test systems, helping ensure that they run smoothly, especially when it comes to long-term reliability.



Details matter

Motherboard developed and produced in Germany

The extremely sophisticated R&S®CMW-CU motherboard combines CPU, chipset, graphics, GPIB as well as USB and Ethernet standard interfaces in one module.

The motherboard has been exclusively developed and manufactured in Germany for Rohde&Schwarz. It is used not only in the R&S®CMW-CU, but also in a variety of other Rohde&Schwarz instruments. The reliability and long life of this module therefore have a pivotal role. Extensive tests were introduced in production to keep the failure rate to a minimum.

An energy-saving mobile processor cuts power consumption and heat dissipation in the controller interior, which increases component life.

Long-term availability of components is a must with equipment from Rohde&Schwarz, and this also applies to the R&S®CMW-CU. Should a failure occur at any time in the future, replacement modules will still be available.

Excellent EMC values

The outstanding EMC values of the R&S®CMW-CU block out all electromagnetic interference on test setups. The controller was developed and designed strictly in accordance with EMC directives, with the core know-how of Rohde&Schwarz implemented in every aspect.

Interfaces to the exterior have been specially filtered, and the keyboard (R&S®PSL-Z2 option) and mouse (R&S®PSL-Z10 option) have also been very carefully selected and tested in accordance with the latest EMC directives.



Robust and reliable with excellent EMC characteristics: The R&S®CMW-CU is a tried-and-tested system component that is used in transmitter and receiver systems with high field strengths as well as in test systems for measuring minimum-strength signals.

Compact and flexible design

Robust, highly expandable housing

Despite its small dimensions, the robust housing is extremely expandable. In addition to two PCI Express slots, the R&S®CMW-CU control unit features four PCI slots, thereby safeguarding investments in existing PCI systems that are based on this bus system and in some cases required expensive customization. Clamps ensure the boards are locked firmly in place.

Wealth of interfaces that meet virtually any need

Five USB ports

Two USB controllers provide five USB ports. Two ports are located at the front, which is especially advantageous for rackmounting (R&S®ZZA-311 option).

Two independent Ethernet controllers

Two independent Ethernet controllers permit flexible integration of the R&S®CMW-CU in Ethernet networks (LANs). Here, too, one of the two interfaces is available on the front panel.

Analog VGA connector and digital DVI interface

In addition to the analog VGA standard connector, the R&S®CMW-CU also offers a digital DVI interface which allows operation of suitable TFT monitors without conversion losses (at different resolutions). The result is impressive – truly brilliant images.

GPIB interface

An industrial controller would not be complete without a GPIB interface, which is included in the base unit and is compatible with the quasi-industrial standard set by National Instruments (AT-GPIB/TNT).

Ordering information

Designation	Type	Order No.
Base unit		
Control Unit	R&S®CMW-CU	1161.5000K50
Accessories supplied: operating manual, software driver (CD), power cable		
Accessories		
Keyboard, US character set, USB	R&S®PSL-Z2	1157.6870.xx
Mouse, optical, USB	R&S®PSL-Z10	1157.7060.xx
17" TFT Monitor	R&S®PMC3	1082.6004.xx
19" Rack Adapter	R&S®ZZA-311	1096.3277.00
IEC/IEEE Bus Cable		
0.5 m length	R&S®PCK	0292.2013.05
1 m length	R&S®PCK	0292.2013.10
2 m length	R&S®PCK	0292.2013.20
4 m length	R&S®PCK	0292.2013.40

For data sheet, see PD 5214.5710.22 and www.rohde-schwarz.com

Your local Rohde&Schwarz expert will help you determine the optimum solution for your requirements. To find your nearest Rohde&Schwarz representative, visit www.sales.rohde-schwarz.com

Service you can rely on

- | Worldwide
- | Local and personalized
- | Customized and flexible
- | Uncompromising quality
- | Long-term dependability

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

Environmental commitment

- | Energy-efficient products
- | Continuous improvement in environmental sustainability
- | ISO 14001-certified environmental management system

Certified Quality System
ISO 9001

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