CMA 3000

SPECIFICATIONS

Remote Control – Scripting option

Automated testing with the CMA 3000

CMA 3000 is Anritsu's next-generation portable, compact and user-friendly field tester. However the Remote Control – Scripting option turns the instrument into a fast, reliable and powerful tool for automated testing in labs and manufacturing environments.

During development and manufacturing of communication network elements repeated tests are required to ensure and verify the quality of the products. This is most efficiently done by controlling test instruments from a PC with test scripts that set up the relevant tests, read out the results and do further actions depending on the results. With the Remote Control – Scripting option installed the CMA 3000 is a cost effective and flexible tester for such applications.

Futureproof design

The basic CMA 3000 configuration, with its two 2 Mbps receivers and transmitters, supports framed and unframed testing and monitoring of 2 Mbps systems. By adding the Remote Control – Scripting option these tests can be done automatically as part of a manufacturing test.

The modular design provides you with a clear and cost-effective upgrade path. By adding options the CMA 3000 with Remote Control – Scripting option supports automated testing of a large number of interfaces and technologies, including Ethernet, SDH, E3, E4 and V-series interfaces. Also VoIP call emulation is supported by the Remote Control – Scripting option when VoIP options are installed in the instrument.

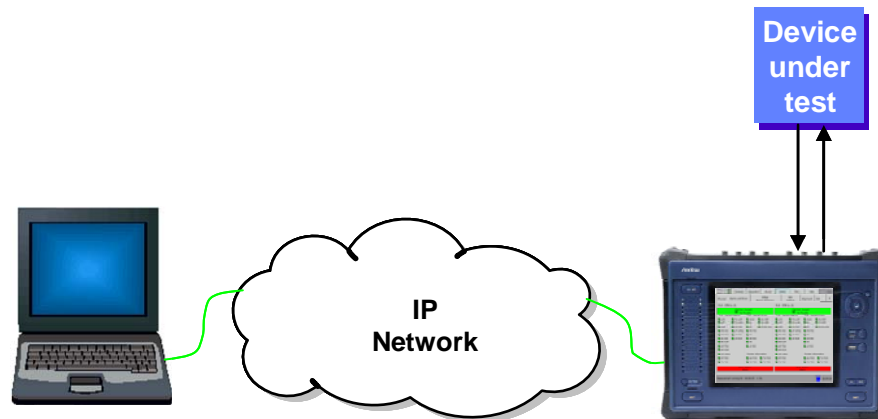| Key Features	Key Applications

• Testing of:
  o 2 Mbps interfaces
  o Ethernet interfaces (10Mbps/100Mbps/1Gps/10Gbps)
  o VoIP call emulation options
  o SDH interfaces up to STM-64 (options)
  o E3 Interfaces (option)
  o E4 interfaces (option)
  o V-series interfaces (option)
• Great flexibility through easy-to-install options
• SCPI compliant
• Fast response to commands
	• Automated testing in:
	  o Manufacturing environments
	  o Labs

Figure 1 Remote controlling a CMA 3000 for automated testing

Programming interface

The automated testing is programmed using commands/replies that are ASCII formatted strings. With these the settings parameters in the instrument can be set and the results can be read. The Ethernet service interface of the CMA 3000 is used to remote control the instrument. Fast response to commands reduces time required for testing, which is valuable in mass production of communication equipment.

When not used for remote control the CMA 3000's intuitive user interface, with a large color LCD display and easy-to-understand graphical symbols can be used to read and interpret results of measurements. The CMA 3000 has two USB ports and an Ethernet Service interface for data transfer and external communication giving you full flexibility.

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Specifications

The specifications table on this page covers the functionality of the CMA 3000 Remote Control – Scripting option. For information on the functionality of the basic instrument and the options for the CMA 3000 please refer to the related specification sheets.

Support of functionality and options by the Remote Control – Scripting option	
Basic instrument	The basic instrument with two 2 Mbps interfaces
Options supported	Ethernet options (10/100 Mbps, 10/100/1000 Mbps and 10Mbps/100Mbps/1Gps/10Gbps) incl.: • RFC 2544 tests • Ping • BERT • Service Activation Test option • Synchronous Ethernet test option • IP channel statistics option • Multistream option • Stacked VLAN option • MPLS option • VoIP call emulation options SDH options (STM-1/-4/-16 and STM-64) incl. tests • APS • Pointer movement • Tributary scan E3 option E4 option Unframed T1 option V-series interfaces option Report generation
Options and functions that are not supported	Frame Relay option ATM options ISDN call emulation options Protocol decode options Log measurements Auto configuration Histograms

Remote Control	
Format	Remote Control commands/replies are ASCII formatted strings. • SCPI 1999.0 compliant with support of IEEE 488.2 mandatory common commands
Driver	A LabView driver is available for the CMA 3000 Remote Control – Scripting option
Communication interface	The Ethernet Service Interface of the CMA 3000 is used for the Remote Control • Ethernet 10/100. One RJ45 connector • TCP/IP connection. Port 1024 – 5000.
Related option	An add-on option will turn on/off the CMA 3000 when AC power is turned on/off. Hereby the instrument can be shut down immediately with the battery installed in the unit.

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