

Missile Checkout Console



The BAE SYSTEMS Missile Checkout Console (MCC) validates the nation's premier ballistic defense missiles. Its core design was initially based upon the requirements of the Theater High Altitude Area Defense (THAAD) missile.

However, its common test system architecture with VXI, GPIB, Ethernet, Fiber, and RS-232 instrumentation provides modular solutions to meet other customer needs.

The MCC provides automated test control of power, communication, RF, and ordnance functions common to all missiles. It also includes instrumentation for its own self-tests. It is mostly COTS-based for providing quick, adaptable and maintainable support for customers.

RF

- X-band Up and Down Link Communications
- P-band Up Link Communications (range-approved, 400-450 MHz, 8-tone, Flight Termination Test Set)
- L-band Up and Down Link Communications
 - GPS Satellite Simulator (12-Satellite, L1 frequency modulated with C/A signal)
 - GPS Translator Processor
- S-band Down Link Communications
 - Telemetry Ground Station (demodulates RF telemetry stream)
- Multi-path RF Switching Networks
- 20 GHz RF Synthesizer Sources
- RF Spectrum Analyzer, Power Meter, and DLVA Measurement Devices
- Programmable Attenuators
- High Quality, Durable Gore RF Cables

Laser

- One Class IIIB Laser Output
- Fourteen (14) Laser Event Channel Inputs

Analog/Digital

- Modular and Expandable Communication Platform
 - GPIB
 - VXI
 - Ethernet
 - Fiber
 - RS-232
- Multiple 0-40V, 0-25A Power Supplies with current monitoring output
- Multiple 0-60V, 0-30A Programmable Load Channels
- Solid-State Hot Switch Power Relays
- Electro-Mechanical Power Isolation Relays
- 6.5 Digital Multi-Meter with 4-wire Measurement Capability
- 4-Channel Oscilloscope Measurement
- Continuous Voltage, Current, Low Voltage Ordnance (LVO), Laser Initiated Ordnance System (LIOS), and Divert Altitude Control System (DACS) Event Monitoring using Comparator and ADC
- Multiple Channel, Programmable Input/Output, RS-422/485 Bus Communication
- Multi-Channel and Matrixed DMM and Oscilloscope Switch Matrices
- 3-Channel Timer/Counter Measurement
- IRIG B System Clock

Processor

- 40 GB Removable Hard Drives
- 800 MHz Dual Pentium Processors
- Zip, Floppy, and CD-RW Drives
- Windows 2K Operating Systems
- Remote Control Capability using PCAnywhere

ISO 9001 Registered

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