



Model DWM-111

Multilevel Dual PC Trusted Desktop

3 Levels of Access in One Box
Eliminate the Air Gap
1 Wire-OIS Black Channel



- Multilevel Operating Environment
- Single Wire Multi-Domain Connectivity
- Symmetric Electrical Separation
- High Isolation KVM Switch
- Secure Boot Sequence

Multilevel Access with Symmetric Electrical Separation

Users are excited about API's DWM-111 because it combines the latest multilevel operating environment technologies into a simple, easy-to-use system that also ensures data and signal separation. Since it incorporates multiple motherboards, program managers are anxious to provide users with a single unit that allows access to three levels of classification.

CONTRACTS

Small Business

GSA Contract
GS-35F-0109P
Products and Services
Expires 11/2013

NATO Contract
NC3A/BOA #9768
Products and Services

NAICS Codes
334111, 334112,
334113, 334119,
334310

Security
U.S./U.K. facility
clearances

Symmetric Electrical Separation

API's DWM-111 consolidates two computers into a single chassis while ensuring electrical separation between RED and BLACK signals.

This eliminates the need for physical separation, thus eliminating the "air gap" requirement. With guaranteed electrical separation facilities processing national security information are guarded against improper installation and improper rearrangement of equipment. This benefit applies not only to the computing devices but also much of the associate cabling.

This electrical separation security measure is symmetrical in that there is no designation for high-side or low-side. The electrical separation prevents signal leakage in both directions.

Multilevel operating environments create a security concern previously overcome with physical separation. Now with signals from various security levels coexisting within a single chassis, electrical shielding becomes even more critical for true data separation.

High Isolation KVM switch

The DWM-111 incorporates high isolation peripheral switching circuitry allowing secure peripheral sharing. This eliminates the need for users to deal with multiple keyboards, video displays and mice within their high security work environments.

Switch features:

- Manual positive selection feedback via LEDs indicators
- No scan or hot key features
- No physical data path connection between ports
- High peripheral port group electrical isolation
- No firmware or I/O processors within the switch
- No KVM storage buffers to clear
- No storage of switch state information

Secure Boot Sequence

The DWM-111 will soon offer a secure boot sequence, provide root-of-trust from power-up to running operating sequence. The security measure replaces the conventional BIOS and utilizes the Trusted Platform Module (TPM) for measuring code and comparing results to the known-good results. Not until all measures and scans are proven successful will "Secure Mode" be confirmed, thus allowing the user system access based on security policies set on boot up.

Multilevel Operating System

Both motherboards within the DWM-111 support MLS operating environments such as General Dynamics' TVE and INTEGRITY Global Secure. Such virtualization allows access to multiple domains and multiple security levels.

Secure Network Connectivity with Guaranteed Data Separation

The DWM-111's network interface controllers (NIC) are configured to meet the security needs of the target environment. For traditional deployments there is a single NIC for each security level or motherboard. In multi-level implementations (e.g. separation kernels) the DWM-111 is equipped with the OIS Black Channel Network Card. This allows multiple virtual networks on a single physical network with guaranteed separation. OIS software drivers support Integrity PC, LynxSecure, TVE Desktop and VxWorks MILS. Interfaces for 10/100/1000 Mb Ethernet are available in copper or fiber.

