

XD Air

Portable Media Threat Protection

Proven

Successfully deployed in more than 1,000 government and critical infrastructure applications

Sophisticated

Employs the latest tools, filters, and deep content inspection techniques to detect and remove malware and other malicious content from portable media

Flexible

- Enables assured transfer of classified data between high-risk networks
- Assists in the controlled release of sensitive government documents by exposing hidden content and verifying cleansing before release
- Protects against media-borne, data-borne and supply-chain threats when transferring data to secure or critical networks

Hardened

XD Air is hardened out-of-the-box against attacks from media-borne malware and does not require additional hardening by the customer to meet NEI or government requirements

Certified

- Meets Department of Defense's JTF-GNO CTO-10-004A requirements for Removable Flash Media Device Implementation
- Adheres to Nuclear Energy Institute (NEI) 08-09 guidance for secure data transfer using portable media XD Air

Portable Media Threat Protection

XD Air™ is a stand-alone kiosk that provides the strongest portable media threat protection available. Developed in conjunction with the National Security Agency, XD Air is the only U.S. Cyber Command-approved tool for the transfer of classified documents via portable media.


An integrated hardware/software package, XD Air:

1. Performs Content Disarm & Reconstruction (CDR) on common document and image file types, separating them into discrete components, inspecting and sanitizing those components, and then reassembles the file into its original format
2. Performs a second CDR inspection using a separate, independently-developed CDR filter to verify the sanitization results
3. Utilizes multiple antivirus scanners to detect known malware
4. Transfers files that pass sanitization to securely erased destination media
5. Detects and warns the user of unusual behavior by portable device firmware, prioritization and mitigation

In short, XD Air secures the air transfer gap by protecting against inbound attacks and malware and also guards against outbound data compromise and loss.



XD Air goes well beyond conventional virus scanning to uncover hidden threats

	XD Air	Virus Scan
Zero Day Threats	Yes	No
Device	Yes	No
Malware	Yes	No
Steganography	Yes	No
Blacklist Terms	Yes	No
Unknown File Types	Yes	No
Metadata	Yes	No
Embedded Objects	Yes	No
Unrecognized Data	Yes	No
Macros	Yes	No
Obfuscated Text	Yes	No



Dell 7424 Rugged Laptop

Processor
8th Gen Intel® Core™ i5-8350U Processor (Quad Core, 6M Cache, 1.7GHz, 15W, vPro)

Memory
32GB (2x16GB) 2400MHz DDR4 Non-ECC

Hard Drive
M.2 512GB PCIe NVMe Class 40 Opal 2.0 Self Encrypting Solid State Drive

Optical Drive
6X BD-RE 9.5mm Optical Drive

Display
14" FHD WVA (1920 x 1080) Embedded Touch, Outdoor-Readable Screen

Keyboard
Sealed Internal RGB Backlit English Keyboard

Primary Battery
3 Cell 51Whr ExpressCharge Capable Battery

Power Supply
90W Rugged AC Adapter



Dell Optiplex XE3

Processor
4th Gen Intel Core i5-4570S Processor (Quad Core, 2.90GHz Turbo, 6MB)

Memory
32GB (4X8GB) 1600MHz DDR3L Memory

Hard Drive
256GB 2.5inch Serial ATA Solid State Drive

Optical Drive
8X Max Slimline DVD+/-RW

Display
Dell P1917S 19" LCD Monitor

Keyboard
Wired Keyboard & Mouse

XD Air Portable Media Threat Protection

Three Methods of Protection: Unlike antivirus-only solutions, XD Air implements three forms of protection to ensure that malicious content does not get transferred into a secure network or facility.

Known Good: XD Air performs Content Disarm & Reconstruction on common document types and transfers only "known good" content to clean destination media. This process eliminates hidden data, macros, and executable content. Because it doesn't rely on signatures of known malware, this process is effective against zero-day attacks

Known Bad: All files are also scanned with multiple antivirus engines as an added layer of defense.

Known Source: By verifying the signature of digitally signed files and determining that content exactly matches a signed manifest, XD Air helps establish the trusted transfer of known-source files into secure networks or facilities.

Supported Media Types

- USB flash drives
- CD/DVD
- SD cards
- Portable hard drives and SSDs
- Select hardware-encrypted USB flash drives
- Compact flash
- Floppy disk

Content Disarm and Reconstruction Support

- Microsoft® Office 2007-2016 (Word, Excel, PowerPoint)
- Adobe PDF Files (PDF)
- Image Files (GIF, PNG, JPEG, BMP, TIFF, WMF, EMF)
- Archive and Compressed Files (ZIP, GZIP, BZIP, TAR)
- XML Files (schema validation)



Owl Cyber Defense Solutions, LLC, headquartered in Columbia, MD, leads the industry in data diode and cross-domain network cybersecurity solutions for faster, safer and smarter decision making. We create solutions tailored for high-risk sectors including the military, government and critical infrastructure. Our advanced technologies enable secure, near-instantaneous collaboration, bridging network barriers to protect critical missions. With a focus on scalability and interoperability, Owl ensures that organizations can maintain secure, reliable, and compliant communication channels against evolving cyber threats.

For more information on Owl, or to schedule a demo, visit www.owlcyberdefense.com.

