

Media Cartridge

NETArchive S-Series Datasheet

True Write-Once-Read-Many (WORM) optical technology has been the media of choice for professional data archiving for many decades with a very long and successful history across many industries. Optical media eliminates the pain points commonly associated with magnetic disk and tape media including frequent migrations, special environmental conditions, susceptibility to damage via normal use, natural disasters, and high power consumption.

The *NETArchive*® solution continues the legacy with a professional archive media that is extremely robust and offers an archival life estimate of greater than 100 years, making it the premiere choice for storing valuable data assets.

The *NETArchive* ODA2 high-capacity 3.0TB media cartridge contains 11 optical discs that act as one volume of mass storage enabling files to span multiple individual discs. The sealed cartridge eliminates the requirement for managing individual discs preventing accidental data or disc loss due to human intervention. All archived data remains randomly accessible with high-speed retrieval.

Individual optical discs feature a protective transparent hard coating that assures stable read/write performance, offers scratch protection, shields against electrostatic discharge, and significantly reduces interference and disturbance.

Designed for durability and resilience in a wide range of environmental conditions, the heat-resistant polycarbonate cartridges feature a metal reinforcement bridge that provides mechanical strength and protects discs from internal and external load pressure, shock, and vibration. Each cartridge has a unique barcode for tracking purposes and is equipped with a built-in preformatted RFID chip utilized by the *NETArchive* system.

The *NETArchive* media truly offers the lowest total cost of ownership with a high-capacity, compact design that lends itself to on or offsite storage without requiring special environmental conditions.



Features

- Reliable Archive Grade Media
- Compliant Write-Once-Read-Many (WORM) preserves data unaltered for > 100 years
- High-capacity, low-cost
- Unquestioned record authenticity
- Withstands chain of evidence scrutiny in court proceedings
- Protects against ransomware, EMP and accidental deletion
- Cartridge prevents human contact, protecting and securing media
- Small profile is ideal for shelf and offsite storage
- Improved media reliability with special protective hard coating
- Does not require special environmental conditions while stored
- Reinforced cartridge design protects discs
- Preformatted with unique barcode & RFID chip utilized by *NETArchive* system
- Drive monitors media for issues and provides alerts
- UDF multi-volume format

NETArchive ODA Media

MODEL / Part Number	ODA1 / NA1500WOBARX1	ODA2 / NA3300WOBARX1
Nominal Capacity	1.5 TB	3.0 TB
Access Type	Write Once	Write Once
Number of Discs	12	11
Capacity of Individual Disc	128GB	300GB
Number of Layers	4	6 (3 per side)
Track Pitch	.32µm	.225µm
Recording Technology	Groove	Land & Groove
Data Bit Length	.0874µm	79.5 nm
Read Stability	>1,000,000 cycles	>1,000,000 cycles
Recording Layer	Phase Change	Phase Change
Blue Violet Laser Wavelength	0.405mm	0.405mm
Objective Lens Numerical Aperture	.085	.085
Read / Write Operation	100% verify after write	100% verify after write
Media Life	50+ years	100+ years
Cartridge Size	5.11" L x 5.19" W x 1.05" H	5.11" L x 5.19" W x 1.05" H
Cartridge Weight (includes discs)	11.3 ounces	11.3 ounces
Cartridge Material	Reinforced Polycarbonate	Reinforced Polycarbonate
Certifications	OSTA UDF 2.5. & 2.6 ECMA 167	OSTA UDF 2.5. & 2.6 ECMA 167
Operating Temperature	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)
Storage Temp & Humidity (short term transportation condition)	14°F to 131°F (-10°C to +55°C) 3% to 90% RH	14°F to 131°F (-10°C to +55°C) 3% to 90% RH
Storage Temp & Humidity (long term recommended)	50°F to 86°F (10°C to +30°C) 30% to 70% RH	50°F to 86°F (10°C to +30°C) 30% to 70% RH