**ComX Computers**
Product Specification Sheet

# OWCSSDAP2A6G480

OWC Aura 480GB MacBook AIR 2012 mSATA SSD

## Product Overview

OWC Aura 480GB MacBook AIR 2012 501MB/s, Sandforce 2281, mSATA, 501MB/s, 503MB/s, Read 60K / Write 60K




## Specifications

**Features:**

**The Aura Pro SSD line features industry leading SandForce® DuraClass™ Technologies:**

- DuraWrite™ extends the endurance of your Solid State Drive (SSD).
- Intelligent Block Management & Wear Leveling automatically distributes data evenly across the entire SSD.
- Intelligent Read Disturb Management spreads the active read/write across the flash components eliminating data corruption caused by constant use.
- Intelligent "Recycling" for advanced free space management gradually re-writes data across the SSD over time to ensure data never gets corrupted.
- RAISE™ (Redundant Array of Independent Silicon Elements) protects the data on your drive similar to having a RAID setup.
- Best-in-Class ECC Protection for longest data retention and drive life.

Once again, OWC provides Mac users an upgrade path that delivers higher performance, functionality, and reliability! Whether you own or are considering a 2012 base model 11´´ MacBook Air with a Solid State Drive or the top of the line 13´´ model

**More Options**
Unlike the factory pre-configured models with no other SSD choices offered, the OWC Aura Pro 6G gives you the freedom to choose from a variety of sizes to meet your storage needs.

**Better by Design**
"Mean Time To Failure" - We all know that nothing lasts forever. But that doesn't mean you shouldn't get the most out of your investment. OWC SSD with DuraWrite™ Technology, optimizes writes to the flash memory over conventional controllers increasing the overall endurance and reliability of the complete SSD. Highly intelligent block management and wear leveling also extends the overall endurance. This adds up to a MTTF that is higher than most SSDs and enterprise class hard drives on the market today.

**Synchronous Interface NAND**
To achieve the higher bandwidth potential of the SATA 6Gb/s bus standard, the OWC Aura Pro 6G SSDs utilize Tier-1

Synchronous NAND instead of commonly utilized Asynchronous NAND. Synchronous NAND enables reads and writes to be "synced" with the SSD processor's clock signal for maximum data throughput.

**Specifications:**

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|---|---|
| **Specifications** | |
| **Product Code** | OWCSSDAP2A6G480 |
| **Specifications** | |
| **Capacity** | 480GB useable capacity |
| | Total Flash Memory Components - 512GB |
| | 32GB allocated to real-time data redundancy & error correction |
| **Formatted Capacity** | 447GiB |
| **NAND** | Tier 1 Major Multi-Level Cell (MLC) High-Performance Sync-NAND Flash |
| **Controller** | SandForce 2281 Series Processor with 7% Over Provisioning |
| **SMART Attributes** | Standard |
| **Native Command Queuing** | up to 32 commands |
| **Manufacturer Model Number** | OWCSSDAP2A6G480 |
| **RoHS Compliant** | Yes |
| **Format** | Unformatted |
| **Reliability** | |
| **Data Reliability** | ECC Recovery: Up to 55 bytes correctable per 512-byte sector |
| **Security** | Chip Based Data Encryption: 128-bit AES-compliant |
| **TRIM Support** | OS Dependent |
| **Nonrecoverable Read Errors** | Less than 1 sector per 10 bits read |
| **Performance** | |
| **Sustained Reads (up to)** | 501MB / s |
| **Sustained Writes (up to)** | 503MB / s |
| **Random 4K Read4** | Up to 60,000 IOPS |
| **Random 4K Write4** | Up to 60,000 IOPS |
| **Read Latency** | less than 0.1ms |
| **Write Latency** | less than 0.1ms |
| **Power** | |
| **Active Power** | Less than 3000mW (3.0W) expected maximum draw |
| **Idle Power** | Less than 1200mW (1.2W) |
| **Environmental (Operating)** | |
| **Temperature ( degreesF)** | 32 degreesF to 158 degreesF |

| | |
|---|---|
| **Temperature ( degreesC)** | 0 degreesC to 70 degreesC |
| **Environmental (Non-Operating)** | |
| **Temperature ( degreesF)** | -67 degreesF to 302 degreesF |
| **Temperature ( degreesC)** | -55 degreesC to 150 degreesC |
| **Acoustics** | |
| **Idle (Typical)** | 0.0 bels |
| **Seek (Typical)** | 0.0 bels |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/OWCSSDAP2A6G480-OWC-Aura-480GB-MacBook-AIR-2012-mSATA-SSD-p-84414.php**

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