

# ADATA XPG SX300/Premier Pro SP300 Datasheet

## Features

- > Applicable to Intel® Smart Response Technology
- > MTBF: 1,200,000 hours
- > Complies with ATA/ATAP1-7 Standard
- > S.M.A.R.T feature supported
- > NCQ Command set supported
- > TRIM Command supported
- > 3 – Year Warranty
- > OS Compatibility: Windows 7/Windows XP/Windows Vista/  
Mac OS X/Linux

XPG SX300



Premier Pro SP300



## Specifications

| Product Model       | XPG SX300                                                                         | Premier Pro SP300                                                                 |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Capacity            | 64GB/128GB/256GB                                                                  | 24GB/32GB/64GB                                                                    |
| Form factor         | Full-size mSATA                                                                   |                                                                                   |
| NAND Flash          | Multi-Level Cell (MLC) NAND Flash Memory                                          |                                                                                   |
| Controller          | LSI SandForce SF-2281                                                             | LSI SandForce SF-2141                                                             |
| Dimensions          | 50.95 x 30 x 4mm(L x W x T)                                                       |                                                                                   |
| Weight              | 7g                                                                                |                                                                                   |
| Interface           | SATA 6Gb/sec                                                                      | SATA 3Gb/sec                                                                      |
| Performance(Max)    | Read: 550 MB/sec.<br>Write: 505 MB/sec.<br>IOPS: 85,000 (Maximum 4K Random Write) | Read: 280 MB/sec.<br>Write: 260 MB/sec.<br>IOPS: 46,000 (Maximum 4K Random Write) |
| Operating           | 0 °C - 70 °C                                                                      |                                                                                   |
| Storage temperature | -40 °C - 85 °C                                                                    |                                                                                   |
| Shock resistance    | 1500G/0.5ms                                                                       |                                                                                   |
| MTBF                | 1,200,000 Hours                                                                   |                                                                                   |
| ECC Recovery        | Up to 55 bits correctable per 512-byte sector (BCH)                               |                                                                                   |
| Certification       | RoHS, CE, FCC                                                                     |                                                                                   |
| Warranty            | 3 Years                                                                           |                                                                                   |

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## SX300 Performance Details:

| Capacity | Read Speed ATTO (MB/sec) | Write Speed ATTO (MB/sec) | Read Speed Crystal Disk Mark (MB/sec) | Write Speed Crystal Disk Mark (MB/sec) | Maximum 4K Random Write IOPS Iometer |
|----------|--------------------------|---------------------------|---------------------------------------|----------------------------------------|--------------------------------------|
| 64GB     | Up to 550                | Up to 485                 | Up to 370                             | Up to 85                               | 65,000                               |
| 128GB    | Up to 550                | Up to 500                 | Up to 480                             | Up to 170                              | 80,000                               |
| 256GB    | Up to 550                | Up to 505                 | Up to 500                             | Up to 180                              | 85,000                               |

## Premier Pro SP300 Performance Details:

| Capacity | Read Speed ATTO (MB/sec) | Write Speed ATTO (MB/sec) | Read Speed Crystal Disk Mark (MB/sec) | Write Speed Crystal Disk Mark (MB/sec) | Maximum 4K Random Write IOPS Iometer |
|----------|--------------------------|---------------------------|---------------------------------------|----------------------------------------|--------------------------------------|
| 24GB     | Up to 280                | Up to 230                 | Up to 180                             | Up to 35                               | 44,500                               |
| 32GB     | Up to 280                | Up to 260                 | Up to 200                             | Up to 45                               | 46,000                               |
| 64GB     | Up to 280                | Up to 260                 | Up to 250                             | Up to 95                               | 41,000                               |

Seq. Read & Write speed test by AS SSD Benchmark and ATTO.

Random read & write speed test by Iometer 2010 (Queue depth of 32; write cache enabled)

IOPS Test Utility: Iometer (Queue depth of 32; write cache enabled)

The system conditions and test environment may affect test results

## Packaging Information

| Type  | Weight | Dimensions      | PCs/Carton | CUFT | Carton Gross Weight | Carton Dimensions |
|-------|--------|-----------------|------------|------|---------------------|-------------------|
| SX300 | 25g    | 133 x 79 x 14MM | 80         | 0.97 | 3.03Kg              | 420 x 330 x 200MM |
| SP300 | 25g    | 133 x 79 x 14MM | 80         | 0.97 | 3.03Kg              | 420 x 330 x 200MM |

## Ordering Information:

### Product: XPG SX300

| Capacity | EAN Code      | ADATA Part No.   |
|----------|---------------|------------------|
| 64 GB    | 4713435795248 | ASX300S3-64GM-C  |
| 128 GB   | 4713435795224 | ASX300S3-128GM-C |
| 256 GB   | 4713435795255 | ASX300S3-256GM-C |

### Product: Premier Pro SP300

| Capacity | EAN Code      | ADATA Part No. |
|----------|---------------|----------------|
| 24 GB    | 4713435795262 | ASP300S-24GM-C |
| 32 GB    | 4713435795231 | ASP300S-32GM-C |
| 64 GB    | 4713435795279 | ASP300S-64GM-C |

