

## Intel 320 2.5" 300 GB Serial ATA II MLC

**Brand :** Intel

**Product code:** SSDSA2BW300G301

**Product name :** 320



SSD 320 Series (300GB, 2.5in SATA 3Gb/s, 25nm, MLC)

Intel 320. SSD capacity: 300 GB, SSD form factor: 2.5", Read speed: 270 MB/s, Write speed: 205 MB/s, Data transfer rate: 3 Gbit/s

| Features                                       |                                    | Operational conditions         |   |
|--|------------------------------------|--------------------------------|---|
| Security algorithms                            | 128-bit AES                        | Operating temperature (T-T)    | 0 - 70 °C   |
| SSD form factor *                              | 2.5"                               | Storage temperature (T-T)      | -55 - 95 °C   |
| SSD capacity *                                 | 300 GB                             | Operating vibration            | 2.17 G  |
| Interface *                                    | Serial ATA II                      | Non-operating vibration        | 3.13 G  |
| Memory type *                                  | MLC                                | Operating shock                | 1500 G  |
| Data transfer rate                             | 3 Gbit/s                           | Non-operating shock            | 1500 G  |
| Read speed                                     | 270 MB/s                           | <b>Weight &amp; dimensions</b> |   |
| Write speed                                    | 205 MB/s                           | Height                         | 7 mm  |
| Random read (100% span)                        | 39500 IOPS                         | Weight                         | 82 g  |
| Random write (100% span)                       | 400 IOPS                           | <b>Other features</b>          |   |
| Seek time                                      | 0.1 ms                             | Product colour                 | Silver  |
| Read latency                                   | 75 µs                              | Internal                       | ✓   |
| Write latency                                  | 90 µs                              | Processor lithography          | 25 nm   |
| Lithography                                    | 25 nm                              | Drive capacity                 | 300 GB  |
| S.M.A.R.T. support                             | ✓                                  | Launch date                    | Q1'11   |
| TRIM support                                   | ✓                                  | Random write (8GB span)        | 23000 IOPS  |
| Enhanced Power Loss Data Protection technology | ✓                                  | SSD components                 | Intel NAND Flash Memory Multi-Level Cell (MLC) Technology       |
| Uncorrectable Bit Error Rate (UBER)            | < 1 per 10 <sup>16</sup> bits read | SSD power consumption (active) | 150 mw (MobileMark 2007 Workload), 3.5 W (64K Sequential Write) |
| Mean time between failures (MTBF)              | 1200000 h                          | SSD power consumption (idle)   | 100 mw (DIPM), .7 W (Non-DIPM)                                  |
| Market segment                                 | Mobile                             | SSD shock                      | 1,500 G/.5 msec   |
| SSD ARK ID                                     | 56567                              | Sequential reading             | 270 MB/s  |
| <b>Power</b>                                   |                                    | Sequential writing speed       | 205 MB/s  |
| Operating voltage                              | 5 V                                | Status                         | Discontinued  |
| Power consumption (read)                       | 3.5 W                              | Random read (8GB span)         | 39500 IOPS  |
| Power consumption (write)                      | 3.5 W                              | Last change                    | 63903513  |
| Power consumption (standby)                    | 0.7 W                              | Product family                 | Legacy consumer SSD   |
|  |                                    | Product series                 | Intel 320   |
|  |                                    | Product codename               | Postville Refresh   |



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