

# Intel® Solid State Drive Data Center Family

## Limited Warranty Specification Addendum

The following table defines temperature limits as set and reported by Data Center family of Intel® Solid State Drives. Intel® SSD Data Center Tool and Intel® Memory and Storage Tool commands have been provided.

| Product  | Form Factor      | Warranty Temperature Limit | Reported By   | Commands Used   |
|--|------------------|----------------------------|---|---|
| Intel Optane™ SSD DC P4800X, P5800X  | Add-in Card, U.2 | 75° C                      | Log page identifier log ID=197, byte 24, "Highest temperature" equaling or exceeding 75° C            | <b>Windows:</b> "isdct.exe show -nvme log temperaturestatistics -intelssd <device index>", "intelmas.exe show -intelssd <device index> -nvme log TemperatureStatistics"<br><b>Linux:</b> "isdct show -intelssd <device index> -nvme log temperaturestatistics", "intelmas show -intelssd <device index> -nvme log TemperatureStatistics". |
| Intel® Optane™ SSD DC P4801X   | U.2, M.2         | U.2, 75° C<br>M.2, 72° C   | Log page identifier log ID=197, byte 24, "Highest temperature" equaling or exceeding 72 / 75° C       | <b>Windows:</b> "isdct.exe show -nvme log temperaturestatistics -intelssd <device index>", "intelmas.exe show -intelssd <device index> -nvme log TemperatureStatistics"<br><b>Linux:</b> "isdct show -intelssd <device index> -nvme log temperaturestatistics", "intelmas show -intelssd <device index> -nvme log TemperatureStatistics". |
| Intel® Optane™ SSD DC D4800X   | U.2              | 74° C                      | Log page identifier log ID=197, byte 24, "Highest temperature" equaling or exceeding 74° C            | <b>Windows:</b> "isdct.exe show -nvme log temperaturestatistics -intelssd <device index>", "intelmas.exe show -intelssd <device index> -nvme log TemperatureStatistics"<br><b>Linux:</b> "isdct show -intelssd <device index> -nvme log temperaturestatistics", "intelmas show -intelssd <device index> -nvme log TemperatureStatistics". |
| Intel® SSD DC P4500, P4501, P4510, P4511, P4600, P4610, D5-P4320, D5-P4420, D5-P4326, D7-P5500, D7-P5510, D7-P5600, D7-P5608 | All              | 75° C                      | Log page identifier log ID=197, byte 24, "Highest temperature" equaling or exceeding 75° C            | <b>Windows:</b> "isdct.exe show -nvme log temperaturestatistics -intelssd <device index>", "intelmas.exe show -intelssd <device index> -smart".<br><b>Linux:</b> "isdct show -intelssd <device index> -nvme log temperaturestatistics", "intelmas show -intelssd <device index> -smart".  |
| Intel® SSD DC P3500, P3520, P3600, P3608, P3700  | Add-in Card      | 81° C                      | Log page identifier log ID=197, byte 24, "Highest temperature" equaling or exceeding 81° C            | <b>Windows:</b> "isdct.exe show -nvme log temperaturestatistics -intelssd <device index>", "intelmas.exe show -intelssd <device index> -smart".<br><b>Linux:</b> "isdct show -intelssd <device index> -nvme log temperaturestatistics", "intelmas show -intelssd <device index> -smart".  |
| Intel® SSD DC D3600, D3700, P3500, P3520, P3600, P3700   | U.2              | 72° C                      | Log page identifier log ID=197, byte 24, "Highest temperature" equaling or exceeding 72° C            | <b>Windows:</b> "isdct.exe show -nvme log temperaturestatistics -intelssd <device index>", "intelmas.exe show -intelssd <device index> -smart".<br><b>Linux:</b> "isdct show -intelssd <device index> -nvme log temperaturestatistics", "intelmas show -intelssd <device index> -smart".  |
| Intel® SSD DC S3110, S3500, S3510, S3520, S3610, S3710, S4500, S4600, D3-S4510, D3-S4610                                     | All              | NA                         | SMART attribute 190 (0xBE) counter Byte4 and Byte5 (OverTemperatureCounter) equaling a non-zero value | <b>Windows:</b> "isdct.exe show -intelssd <device index> -smart", "intelmas.exe show -intelssd <device index> -smart".<br><b>Linux:</b> "isdct show -intelssd <device index> -smart", "intelmas show -intelssd <device index> -smart".  |
| Intel® SSD DC P4101  | M.2              | NA                         | NA  | NA  |