



## (2) Checking on the computer to be used

You can check the chipset of your computer using the following method.

### Windows/Macintosh

Open Device Manager and check the devices.

Example: Windows 10

① Set Device Manager to display devices by type.

\* Select [View]→[Devices by type].

② Expand “System devices” “PCI Express Root Complex” and other entries

③ Search for “chipset”.

In this example, we can see that “Intel 300 Series /Z390” is used.



### Linux

Check the chipset using the following command from the console.

```
lspci | grep USB
```

### Example:

```
>lspci | grep USB
00:1a.0 USB controller: Intel Corporation C600/X79 series chipset USB2
Enhanced Host Controller #2 (rev 05)
00:1d.0 USB controller: Intel Corporation C600/X79 series chipset USB2
Enhanced Host Controller #1 (rev 05)
08:00.0 USB controller: Texas Instruments Device 8241 (rev 02)
```

In this example, we can see that “Intel C600/X79” is used.

\* Which is used, C600 or X79, depends on the computer.

## Recommended Configuration for Computers Connected to ODS-D380F

### 1. Recommended host bus adapters

For use with ODS-D380F, use one of the following recommended host bus adapters.

If a recommended host bus adapter is not used, then the transfer speed may be reduced, drive units may not be visible from the computer side, data writes may not be completed successfully, or other problems may occur.

\* Set the computer’s power options to [High Performance].

Windows/Linux

- QLE2560/QLE2562 (QLogic 8Gbps Fibre Channel Host Bus Adapter)
- QLE2690/QLE2692 (QLogic 16Gbps Fibre Channel Host Bus Adapter)
- QLE2740/QLE2742 (QLogic 32Gbps Fibre Channel Host Bus Adapter)
- LPe12000/LPe12002 (Emulex 8Gbps Fibre Channel Host Bus Adapter)
- LPe31000/LPe31002 (Emulex 16Gbps Fibre Channel Host Bus Adapter)
- LPe32000/LPe32002 (Emulex 32Gbps Fibre Channel Host Bus Adapter)

### 2. Settings of recommended host adapters

To maximize the performance of the ODS-D380F, set the maximum data transfer size of the recommended host bus adapter to 2MiB as shown below. This setting is not required for Linux.

Windows

Download the latest host bus adapter utility tool from the recommended host bus adapter manufacturer’s website and install it on your computer. Examples of settings for some recommended host bus adapters are described below.

### QLogic Windows SuperInstaller Version 11.00.12

Execute the “qlfcx64.exe” command line utility as shown below to set the maximum data transfer size of the host bus adapter to 2 MiB.

```
c:\>qlfcx64.exe -tsize /fc /set 2048
```

qlfcx64.exe is installed in the following location by default.

```
C:\Program Files\QLogic Corporation\SuperInstaller\Drivers\Win2016\
FC\x64\qlfcx64.exe
```

### Emulex FC Driver for Windows Version 12.4.243.4-11

Launch the “OneCommand Manager” host bus adapter management utility, select the host bus adapter you want to configure, and set the following parameters to set the maximum data transfer size of the host bus adapter to 2 MiB.

Parameter	Value	
LimTransferSize	0	Set the value selected by the “ExtTransferSize” parameter to the maximum transfer size allowed by the driver (default is “0”).
ExtTransferSize	2	Set the maximum data transfer size (Units: MB).

You can check whether the Fibre Channel connection is appropriate using the system check function of the Optical Disc Archive Utility. For details, refer to the Help for the Optical Disc Archive Utility.

## Data Handling and Storage

### 1. General Precautions Relating to Storage

Observe the following general precautions when using storage.

- For SSDs, the transfer rate may decrease when transferring tens of GB of data depending on the cache implementation.
- For HDDs, the transfer rate may decrease as the free space is consumed.

### 2. Precautions When Retrieving Using the ODS-D380U/F

Observe the following precautions relating to the retrieve destination storage to maximize ODS-D380U/F performance.

- Check that the free space is larger than the maximum file size on the retrieve destination storage.
  - \* Specifically, when retrieving from a ODC5500R (5.5 TB write-once cartridge).
- Check that the output is stable at a transfer rate of 500 MB/sec.<sup>1</sup>
  - \* Transfer capacity of 100 GB to 500 GB. If the normal data block size is 30 GB or lower, this limit does not apply.

### 3. Recommended Storage Selection Criteria

The following devices and configuration criteria are recommended when selecting storage to satisfy the transfer rate (condition \*1 above).

- Select SSD.
- Choose an SSD RAID configuration.
- Choose an HDD RAID configuration (RAID0/RAID5/RAID6, 4 to 6-drive configuration without parity drives).

### 4. Validated Storage

SSD:

- Samsung 860PRO
- Samsung 960PRO, 970PRO
- Western Digital WD Black series
- SanDisk Extreme Pro series

HDD RAID:

- HPE MSA2040