



GT 062 3TB Compatibility Statement

Glyph's new GT 062 3TB is the first Glyph product which has total capacity beyond 2TB. During our testing and qualification of the GT 062 3TB, we found several compatibility issues relating to drives that are larger than 2.2TB which users need to be aware of. These fall into two categories: Issues with OS X 10.4 (Tiger), and second, compatibility issues specific to Pro Tools on a Mac. All GT 062 units ship in JBOD mode, which presents two 1.5TB drives to the operating system (OS). If you change the drive mode to Spanning or Striping, it will present one 3TB drive to the OS. Therefore, the default GT 062 shipping mode will not experience any problems. Additionally, RAID 1 mode is not affected because it presents a single 1.5TB drive to the OS.

*For more information about the technical nature of the issues, please read the **Background** section at the end of this document.*

OS X Compatibility

Our OS X compatibility discussion is based on the current versions of OS X at the time of writing: 10.4.11 and 10.5.4.

Intel Macs with 10.5.4

Intel Macs running 10.5.4 are completely compatible with GT 062 3TB drives in all drive modes. They are compatible with GPM and APM drives of any size. They can boot, partition and mount either format. (See the **Background** section for information on GPM and APM drives).

10.5.4 Intel Compatibility

	Bootable	Mounting Limit (disk size)	Partitioning Limit (disk size)
GPM	yes	none	none
APM	yes	none	none

PowerPC Macs with 10.5.4

PowerPC Macs running 10.5.4 are completely compatible with GT 062 3TB drives in all drive modes, just like Intel Macs running 10.5.4. However, they cannot boot from GPM drives. They can partition and mount GPM and APM drives of any size.

10.5.4 PowerPC Compatibility

	Bootable	Mounting Limit (disk size)	Partitioning Limit (disk size)
GPM	no	none	none
APM	yes	none	none

PowerPC Macs with 10.4.11

PowerPC Macs running 10.4.11 have more restrictions. They cannot boot from GPM drives. They can mount GPM drives, but are restricted to drives smaller than 2 TB. They can partition GPM drives but are restricted to drives 1 TB or smaller. They can mount APM drives of any size,

and partition APM drives smaller than 2 TB. *If a drive greater than 2 TB is formatted using APM under 10.4.11, it will be restricted to 2 TB.* If you wish to use an APM drive greater than 2 TB under 10.4.11, you should partition using 10.5.4. You can then mount the drive under 10.4.11.

10.4.11 PowerPC Compatibility

	Bootable	Mounting Limit (disk size)	Partitioning Limit (disk size)
GPM	no	2 TB	1 TB
APM	yes	none	2 TB

Pro Tools Compatibility

Intel Macs

When running on an Intel Mac, Pro Tools can use both GPM and APM drives. There is no size restriction on GPM drives, *but the APM drives must be smaller than 2 TB.* Since the GT 062 3TB ships in JBOD mode, there are no Pro Tools compatibility issues out of the box. If you change the GT 062 3TB to Spanning or Striping mode, and format on an Intel Mac, you will see no problems because Intel Macs use GPM. Additionally, RAID 1 mode is not affected because it presents a single 1.5TB drive to the OS.

PowerPC Macs

When running on a PowerPC Mac, Pro Tools is restricted to APM drives only. *As with Intel Macs, the APM drives must be smaller than 2 TB.* If you are running Pro Tools on a Power PC Mac, you can either keep the GT 062 3TB in the default JBOD mode, which will present two 1.5TB APM drives to the OS, or change to RAID 1 mode which presents a single 1.5TB drive to the OS. *Glyph is currently working with Digidesign engineering to eliminate the 2 TB limit on APM drives.*

Pro Tools Compatibility

	APM (less than 2.2TB)	APM (greater than 2.2 TB)	GPM (less than 2.2 TB)	GPM (greater than 2.2 TB)
Intel (Mac Pro)	yes	no	yes	yes
PowerPC (G4/G5)	yes	no	no	no

Background

In order to understand the compatibility issues, a little technical background is necessary. OS X Disk Utility supports three methods to partition drives: Master Boot Record (MBR), GUID Partition Map (GPM) and Apple Partition Map (APM). MBR is not normally applicable to Glyph drives, so we will exclude this from our discussion. GPM is the newest partition method, adopted by Apple on their transition to Intel processors. Apple Partition Map predates GPM and is still supported on Apple computers. The technical details of the different partition methods are not important for this discussion except for one important fact: while GPM has always supported drives greater than 2.2TB, Apple has recently modified APM so that it can support drives greater than 2.2TB.

When using Disk Utility to partition a drive, you can select the partition method by using the “Options” button on the partition screen. If you do not select the partition method, by default a PowerPC Mac will use APM and an Intel Mac will use GPM.