



to the storage

## iSCSI network storage

### The AR4-4000

 eco-aware storage  
up to 70% less power

**4U 4TB-48TB centralised storage**  
for high capacity and archive use

with up to 48TB in a single 4U enclosure and an upgrade path to over 500TB

Simple iSCSI connectivity with the option of dual 10Gb

SAS driven drive topology provides maximum performance with large scalability

Drive spin-down technology increases reliability of long term storage and reduces power



Although predicted, no one really believed the sheer amounts of data we would be producing today, not so long ago we would have considered a 1GB RAID solution somewhat of an overkill but an investment to counter the growing need for more and more storage. Today we would carry 1GB around in our pockets.

We have all asked ourselves "when will it stop", but digital information has become such a significant asset and necessity to our businesses I suspect that the day our data stops growing is probably the day our business stops growing. We may not be able to tell you 'where will it stop', but we can tell you 'where it starts', with a AR4-4000.

Many storage solution offer a degree of scalability, some large, some more for the sake of marketing and offering little real-life growth. The AR4-4000 offers unprecedented scalability in stages that suit you.

Whilst a single 4U enclosure is capable of housing 4TB to 48TB providing enough expansion for many businesses, its inbuilt virtualisation module is capable of controlling an additional ten 24 bay upgrade modules, providing a growth path up to over 500TBs in affordable stages.

adaptive power management

**70%**  
reduced power

lower energy costs and increased reliability



	Primary	Backup	Archive	InfiniBand
<b>Capacity per</b>				
• Native (main)	1.8TB – 24TB	4TB-48TB	4TB-48TB	1.8TB – 24TB
• Expansion	Up to 100TB	200TB	500TB	200TB
<b>Drives</b>				
• Drive bays	24	4 / 24	4 / 24	24
• 15K RPM SAS	450GB	-	-	450GB
• 7K2 RPM SAS	1TB	-	-	1TB
• 7K2 RPM SATA	-	1TB / 2TB	1TB / 2TB	-
<b>Connectivity</b>				
• Default	2 x 10Gb iSCSI 2 x 1Gb iSCSI	2 x 1Gb iSCSI	2 x 1Gb iSCSI	2 x 40Gb IB 2 x 1Gb iSCSI
• Optional 10Gb	Yes – up to 2	Yes – up to 2	Yes – up to 2	Yes – up to 2
• Optional 8Gb Fibre	Yes – up to 2	Yes – up to 2	-	Yes – up to 2
• Optional InfiniBand	-	-	-	Yes – up to 2
• Max ports	6	4	4	8
<b>Drive channels</b>	8 x 3Gb SAS	4 x 3Gb SAS	4 x 3Gb SAS	8 x 3Gb SAS
<b>Dual Controller</b>	Yes	-	-	Yes
<b>Dual SAS loop</b>	Yes	-	-	Yes
<b>Adaptive read</b>	4GB	1U - 2GB	2GB	8GB
<b>Write cache</b>		4U - 4GB		
<b>Presentation</b>				
• iSCSI LUN	Up to 246	Up to 256	Up to 256	Up to 256
• Fibre LUN	Up to 127	Up to 127	-	Up to 127
• InfiniBand SRP	-	-	-	Up to 256
• CIFS / NFS	-	Yes	Yes	-
• VTL	-	6 drives, 500 slots	-	-
<b>Virtualisation</b>				
• Storage Pools	Up to 8	1	1	Up to 16
• Multiple RAID	Yes	Yes	Yes	Yes
<b>Features</b>				
• Replication	Async / Sync	Backup deferred	-	Async / Sync
• Compression (software)	-	Yes Default	-	-
• Compression (hardware)	-	Optional	-	-
• Encryption	-	Optional	-	-
• Clone 2 Tape	-	Optional	-	-
• Spin down drives	Yes	Yes	Yes	Yes