

[NAS] Conceptronic CH3MNAS



- [Manual en inglés](#)

Enlaces

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 - Versión "ARM" para dispositivos EABI (como el DNS-320/325/345 y CH3MNAS)
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Descripción

- Año lanzamiento: **2009 ??**
- El Grab'n'GO Media Store admite dos discos duros SATA de 2 TB como máxima capacidad.
- Es un servidor NAS con una CPU de 500 MHz, que incorpora un servidor FTP (para poder acceder a los archivos a través de Internet) y utilidades de administración de derechos de acceso para proporcionar a los usuarios diferentes permisos de lectura y/o escritura en su red.
- Puede configurar el disco o discos duros del CH3MNAS en modo Standard, JBOD, RAID 0 ó RAID 1, dependiendo de si quiere dar prioridad a la seguridad, a la flexibilidad o a la rapidez.
 - Standard: Cada disco es tratado independientemente.
 - JBOD: Los dos discos se visualizan como uno solo de capacidad igual a la suma de los dos.
 - RAID 0: Los dos discos se combinan como si fueran un solo disco, semejante a JBOD, aunque mejora la velocidad tanto de escritura como lectura.
 - RAID 1: Los dos discos son un espejo uno del otro, por lo que la capacidad del RAID 1 es igual a la capacidad

del menor de ellos. Si se estropea uno siempre tendremos la misma información en el otro.

Especificaciones

- Requisitos mínimos del sistema
 - Sistema operativo del ordenador: Windows 2000; Windows XP; Windows Vista; Linux 2.6 y superior; Mac OS X 10.5 y superior
 - Formato interno de archivos: A escoger EXT2 o EXT3.
- Conexiones / interfaces
 - 1 LAN por cable (10/100/1000 Mbps); Red con cableado CAT 5E (CAT 6 recomendado)
- Características
 - Interruptor de encendido y apagado
 - Servidor Samba incorporado
 - Servidor UPnP AV incorporado
 - Servidor iTunes incorporado
 - Servidor FTP incorporado
 - Servidor de impresión incorporado
 - Actualización/comprobación de Firmware: Manual (version 1.02, 04/23/2010)
 - Refrigeración activa
 - Configuración de administración basada en web
 - Compatible con asignación de cuotas para usuarios o grupos
 - Compatibilidad de disco duro: 3,5 pulgadas
 - Compatible con descarga o copia de seguridad programada FTP/HTTP
 - Modo autosuspensión
 - Alimentación eléctrica: Externo
 - Interruptor de alimentación automático
 - Disco duro reemplazable
 - Voltaje de entrada AC 100 V - 240 V
 - Conexiones/interfaces: LAN 1000
 - Número de puertos Ethernet 1000 (LAN): 1
 - Compatibilidad con RAID: Disco individual; JBOD; RAID 0; RAID 1
 - Host USB: 1
 - USB: USB 2.0
 - Conector/tipo de disco duro: SATA
 - Dimensiones
 - Largo (en mm): 197
 - Ancho (en mm): 131
 - Alto (en mm): 101
 - Peso (en gramos): 1666

Conexión por SSH

- ```
$ ssh remote_username@remote_host
```

```
$ ssh -p [PUERTO] [USUARIO]@[IP-DEL-SERVIDOR]
```

## Montaje en Linux

- Ejemplo de montaje en el Debian 11 de un recurso compartido por este NAS

```
mount.cifs //192.168.1.54/Volume_1 /media/usuario/ch3mnas_1 -o
username=pedro,password=12345,vers=1.0
```

donde:

- Dirección IP del NAS: 192.168.1.54
  - Recurso al que nos queremos conectar: /Volume\_1, que es el raíz del disco 1 del NAS o del RAID que tenga.
  - Lugar donde se va a montar: /media/usuario/ch3mna\_1
  - Nombre del usuario del NAS que se quiere conectar: pedro
  - Su contraseña: 12345
  - Versión SMB: 1.0, dado que este NAS es antiguo.
- Puede que previamente tengamos que instalar:

```
aptitude install cifs-utils
```

## Memoria

Here the output of

```
cat /proc/meminfo
```

on the Conceptronic CH3MNAS:

```
MemTotal: 61860 kB
MemFree: 3760 kB
Buffers: 18368 kB
Cached: 25940 kB
SwapCached: 220 kB
Active: 21512 kB
Inactive: 27424 kB
SwapTotal: 488336 kB
SwapFree: 486500 kB
Dirty: 20 kB
Writeback: 0 kB
AnonPages: 4624 kB
Mapped: 3948 kB
Slab: 7076 kB
SReclaimable: 4240 kB
SUnreclaim: 2836 kB
PageTables: 280 kB
NFS_Unstable: 0 kB
Bounce: 0 kB
CommitLimit: 519264 kB
Committed_AS: 17060 kB
VmallocTotal: 450560 kB
VmallocUsed: 17256 kB
VmallocChunk: 425980 kB
```

## CPU

Here the output of

```
cat /proc/cpuinfo
```

on the Conceptronic CH3MNAS:

```
Processor : ARM926EJ-S rev 0 (v5l)
BogoMIPS : 332.59
Features : swp half thumb fastmult edsp
```

```
CPU implementer : 0x41
CPU architecture: 5TEJ
CPU variant : 0x0
CPU part : 0x926
CPU revision : 0
Cache type : write-back
Cache clean : cp15 c7 ops
Cache lockdown : format C
Cache format : Harvard
I size : 32768
I assoc : 1
I line length : 32
I sets : 1024
D size : 32768
D assoc : 1
D line length : 32
D sets : 1024

Hardware : Feroceon
Revision : 0000
Serial : 0000000000000000
```

## dmseg

Here the output of dmesg on the Conceptronic CH3MNAS.

```
Linux version 2.6.22.7 (eve@SWTEST1) (gcc version 3.4.4 (release) (CodeSourcery ARM
2005q3-2)) #85 Thu Mar 26 09:48:50 CST 2009
CPU: ARM926EJ-S [41069260] revision 0 (ARMv5TEJ), cr=a0053177
Machine: Feroceon
Using UBoot passing parameters structure
Memory policy: ECC disabled, Data cache writeback
On node 0 totalpages: 16384
 DMA zone: 128 pages used for memmap
 DMA zone: 0 pages reserved
 DMA zone: 16256 pages, LIFO batch:3
 Normal zone: 0 pages used for memmap
CPU0: D VIVT write-back cache
CPU0: I cache: 32768 bytes, associativity 1, 32 byte lines, 1024 sets
CPU0: D cache: 32768 bytes, associativity 1, 32 byte lines, 1024 sets
Built 1 zonelists. Total pages: 16256
Kernel command line: root=/dev/ram console=ttyS0,115200 :::DB88FXX81:egiga0:none
PID hash table entries: 256 (order: 8, 1024 bytes)
Console: colour dummy device 80x30
Dentry cache hash table entries: 8192 (order: 3, 32768 bytes)
Inode-cache hash table entries: 4096 (order: 2, 16384 bytes)
Memory: 64MB 0MB 0MB 0MB = 64MB total
Memory: 53168KB available (2880K code, 190K data, 124K init)
Calibrating delay loop... 332.59 BogoMIPS (lpj=1662976)
Mount-cache hash table entries: 512
CPU: Testing write buffer coherency: ok
NET: Registered protocol family 16
Sys Clk = 166666667, Tclk = 166666667

CPU Interface

SDRAM_CS0base 00000000, size 64MB
SDRAM_CS1disable
SDRAM_CS2disable
SDRAM_CS3disable
```

```
PEX0_MEMbase e0000000, size 128MB
PEX0_IObase f2000000, size 1MB
PCI0_MEMbase e8000000, size 128MB
PCI0_IObase f2100000, size 1MB
INTER_REGSbase f1000000, size 1MB
DEVICE_CS0no such
DEVICE_CS1no such
DEVICE_CS2no such
DEV_B00CSbase ff000000, size 16MB
CRYPT_ENGbase f0000000, size 64KB
```

Marvell Development Board (LSP Version 3.0.5\_NAS\_GDP)-- RD-88F5182-NAS-2 Soc: 88F5182 A2

```
Detected Tclk 166666667 and SysClk 166666667
Marvell USB EHCI Host controller #0: c1072600
Marvell USB EHCI Host controller #1: c1072400
PCI: bus0: Fast back to back transfers enabled
SCSI subsystem initialized
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
NET: Registered protocol family 2
Time: orion_clocksource clocksource has been installed.
IP route cache hash table entries: 1024 (order: 0, 4096 bytes)
TCP established hash table entries: 2048 (order: 2, 16384 bytes)
TCP bind hash table entries: 2048 (order: 1, 8192 bytes)
TCP: Hash tables configured (established 2048 bind 2048)
TCP reno registered
checking if image is initramfs...it isnt (no cpio magic); looks like an initrd
Freeing initrd memory: 8503K
RTC registered
Use the XOR engines (acceleration) for enhancing the following functions:
 o RAID 5 Xor calculation
 o kernel memcpy
 o kernel memzero
 o copy user to/from kernel buffers
Number of XOR engines to use: 2
VFS: Disk quotas dquot_6.5.1
Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
squashfs: version 3.3 (2007/10/31) Phillip Lougher
io scheduler noop registered
io scheduler anticipatory registered (default)
Serial: 8250/16550 driver $Revision: 1.1.1.1 $ 4 ports, IRQ sharing disabled
serial8250.0: ttyS0 at MMIO 0xf1012000 (irq = 3) is a 16550A
serial8250.0: ttyS1 at MMIO 0xf1012100 (irq = 4) is a 16550A
RAMDISK driver initialized: 2 RAM disks of 14336K size 1024 blocksize
loop: module loaded
Marvell Ethernet Driver 'mv_etherenet':
 o Uncached descriptors in DRAM
 o DRAM SW cache-coherency
 o TCP segmentation offload enabled
 o Checksum offload enabled
 o Marvell ethtool proc enabled
 o Rx desc: 128
 o Tx desc: 256
 o Loading network interface 'egiga0'
PPP generic driver version 2.4.2
PPP Deflate Compression module registered
PPP BSD Compression module registered
PPP MPPE Compression module registered
NET: Registered protocol family 24
Intergrated Sata device found
```

```
scsi0 : Marvell SCSI to SATA adapter
scsi1 : Marvell SCSI to SATA adapter
scsi 0:0:0:0: Direct-Access SAMSUNG HD203WI LAN1 PQ: 0 ANSI: 5
scsi 1:0:0:0: Direct-Access SAMSUNG HD203WI LAN1 PQ: 0 ANSI: 5
scsi 0:0:0:0: Attached scsi generic sg0 type 0
scsi 1:0:0:0: Attached scsi generic sg1 type 0
physmap-flash.0: failed to claim resource 0
flash VppMin = "0" , VppMax = "0"
cfi_flash_0: Found 1 x16 devices at 0x0 in 8-bit bank
 Amd/Fujitsu Extended Query Table at 0x0040
cfi_flash_0: CFI does not contain boot bank location. Assuming top.
number of CFI chips: 1
cfi_cmdset_0002: Disabling erase-suspend-program due to code brokenness.
Creating 6 MTD partitions on "cfi_flash_0":
0x00000000-0x00020000 : "MTD1"
0x00020000-0x00040000 : "MTD2"
0x00040000-0x00240000 : "Linux Kernel"
0x00240000-0x00c40000 : "File System"
0x00f80000-0x01000000 : "u-boot"
0x00c40000-0x00f80000 : "Module"
ehci_marvell ehci_marvell.4523: Marvell Orion EHCI
ehci_marvell ehci_marvell.4523: new USB bus registered, assigned bus number 1
ehci_marvell ehci_marvell.4523: irq 17, io base 0xf1050100
ehci_marvell ehci_marvell.4523: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 1 port detected
ehci_marvell ehci_marvell.167817: Marvell Orion EHCI
ehci_marvell ehci_marvell.167817: new USB bus registered, assigned bus number 2
ehci_marvell ehci_marvell.167817: irq 12, io base 0xf10a0100
ehci_marvell ehci_marvell.167817: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb2: configuration #1 chosen from 1 choice
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 1 port detected
ohci_hcd: 2006 August 04 USB 1.1 'Open' Host Controller (OHCI) Driver
mice: PS/2 mouse device common for all mice
md: linear personality registered for level -1
md: raid0 personality registered for level 0
md: raid1 personality registered for level 1
device-mapper: ioctl: 4.11.0-ioctl (2006-10-12) initialised: dm-devel@redhat.com
TCP cubic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
md: Autodetecting RAID arrays.
md: autorun ...
md: ... autorun DONE.
RAMDISK: Compressed image found at block 0
EXT2-fs warning: maximal mount count reached, running e2fsck is recommended
VFS: Mounted root (ext2 filesystem).
Freeing init memory: 124K
usb 1-1: new high speed USB device using ehci_marvell and address 2
usb 1-1: configuration #1 chosen from 1 choice
sd 0:0:0:0: [sda] 3907029168 512-byte hardware sectors (2000399 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 23 00 10 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, supports DPO and FUA
sd 0:0:0:0: [sda] 3907029168 512-byte hardware sectors (2000399 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 23 00 10 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, supports DPO and FUA
 sda: sda1 sda2 sda4
sd 0:0:0:0: [sda] Attached SCSI disk
```

```
sd 1:0:0:0: [sdb] 3907029168 512-byte hardware sectors (2000399 MB)
sd 1:0:0:0: [sdb] Write Protect is off
sd 1:0:0:0: [sdb] Mode Sense: 23 00 10 00
sd 1:0:0:0: [sdb] Write cache: enabled, read cache: enabled, supports DPO and FUA
sd 1:0:0:0: [sdb] 3907029168 512-byte hardware sectors (2000399 MB)
sd 1:0:0:0: [sdb] Write Protect is off
sd 1:0:0:0: [sdb] Mode Sense: 23 00 10 00
sd 1:0:0:0: [sdb] Write cache: enabled, read cache: enabled, supports DPO and FUA
sdb: sdb1 sdb2 sdb4
sd 1:0:0:0: [sdb] Attached SCSI disk
usbcore: registered new interface driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
Installing knfsd (copyright (C) 1996 okir@monad.swb.de).
egiga0: mac address changed
egiga0: link down
Adding 530104k swap on /dev/sda1. Priority:-1 extents:1 across:530104k
Adding 530104k swap on /dev/sdb1. Priority:-2 extents:1 across:530104k
egiga0: link up, full duplex, speed 1 Gbps
ext3: No journal on filesystem on sda4
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sdb4
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sda2
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sdb2
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sda2
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sdb2
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sda4
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
ext3: No journal on filesystem on sdb4
EXT2-fs warning: mounting unchecked fs, running e2fsck is recommended
```

## Información para fun-plugin

- Application binary interface: EABI
- ...

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