

NAME

arcmsr - Areca RAID Controller driver

SYNOPSIS

To compile this driver into the kernel, place the following lines in your kernel configuration file:

```
device pci  
device scbus  
device da  
device arcmsr
```

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

```
arcmsr_load="YES"
```

DESCRIPTION

The **arcmsr** driver provides support for the Areca ARC-11xx, ARC-12xx, ARC-13xx, ARC-16xx and ARC-18xx series of SAS and SATA RAID controllers. These controllers feature RAID-0, 1, 3, 5, 6, and 10 and JBOD acceleration for up to 16 SATA drives. RAID level and stripe level migration, online capacity expansion, hot insertion/removal, automatic failover and rebuild, and SMART are also supported. Access to the arrays is provided via the SCSI CAM */dev/da?* device nodes. A management interface is also present via the */dev/arcmsr?* device node. Management tools for i386 and amd64 are available from Areca.

HARDWARE

The **arcmsr** driver supports the following cards:

- ⊕ ARC-1110
- ⊕ ARC-1120
- ⊕ ARC-1130
- ⊕ ARC-1160
- ⊕ ARC-1170
- ⊕ ARC-1110ML
- ⊕ ARC-1120ML
- ⊕ ARC-1130ML
- ⊕ ARC-1160ML
- ⊕ ARC-1200
- ⊕ ARC-1201
- ⊕ ARC-1203
- ⊕ ARC-1210

- ⊕ ARC-1212
- ⊕ ARC-1213
- ⊕ ARC-1214
- ⊕ ARC-1216
- ⊕ ARC-1220
- ⊕ ARC-1222
- ⊕ ARC-1223
- ⊕ ARC-1224
- ⊕ ARC-1226
- ⊕ ARC-1230
- ⊕ ARC-1231
- ⊕ ARC-1260
- ⊕ ARC-1261
- ⊕ ARC-1270
- ⊕ ARC-1280
- ⊕ ARC-1210ML
- ⊕ ARC-1220ML
- ⊕ ARC-1231ML
- ⊕ ARC-1261ML
- ⊕ ARC-1280ML
- ⊕ ARC-1380
- ⊕ ARC-1381
- ⊕ ARC-1680
- ⊕ ARC-1681
- ⊕ ARC-1880
- ⊕ ARC-1882
- ⊕ ARC-1883
- ⊕ ARC-1884
- ⊕ ARC-1886

FILES

/dev/da? Array block device
/dev/arcmsr? Management interface

SEE ALSO

da(4), scbus(4)

HISTORY

The **arcmsr** driver first appeared in FreeBSD 5.4.

AUTHORS

The driver was written by Erich Chen <*erich@areca.com.tw*>.

BUGS

The driver has been tested on i386 and amd64. It likely requires additional work to function on big-endian architectures.