

# GENESIS700 7-SLOT ATCA SHELF HELLO WORLD!

January 22, 2020

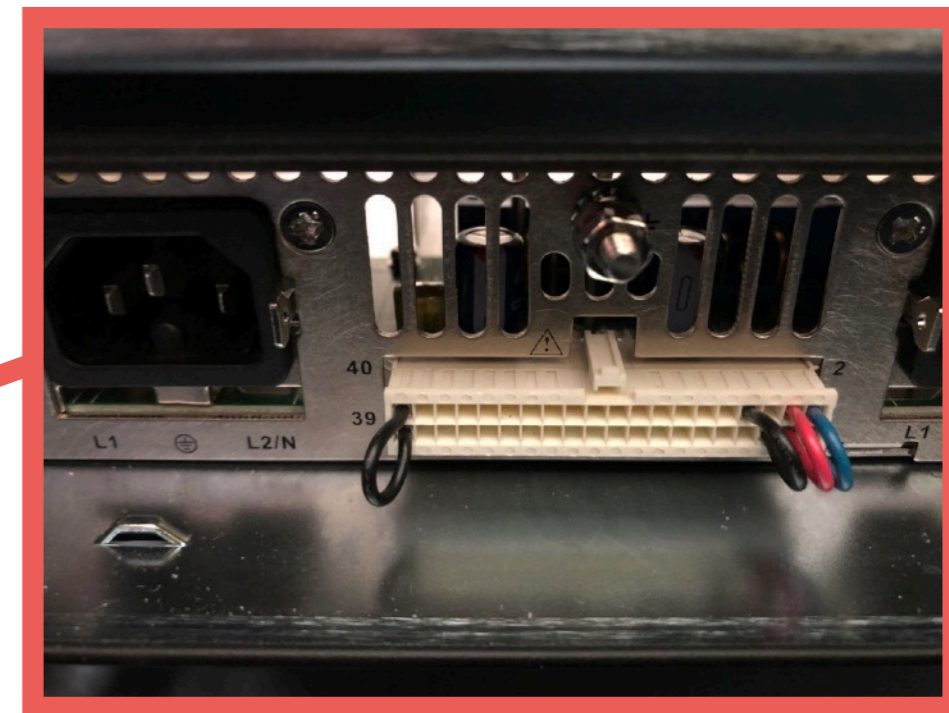
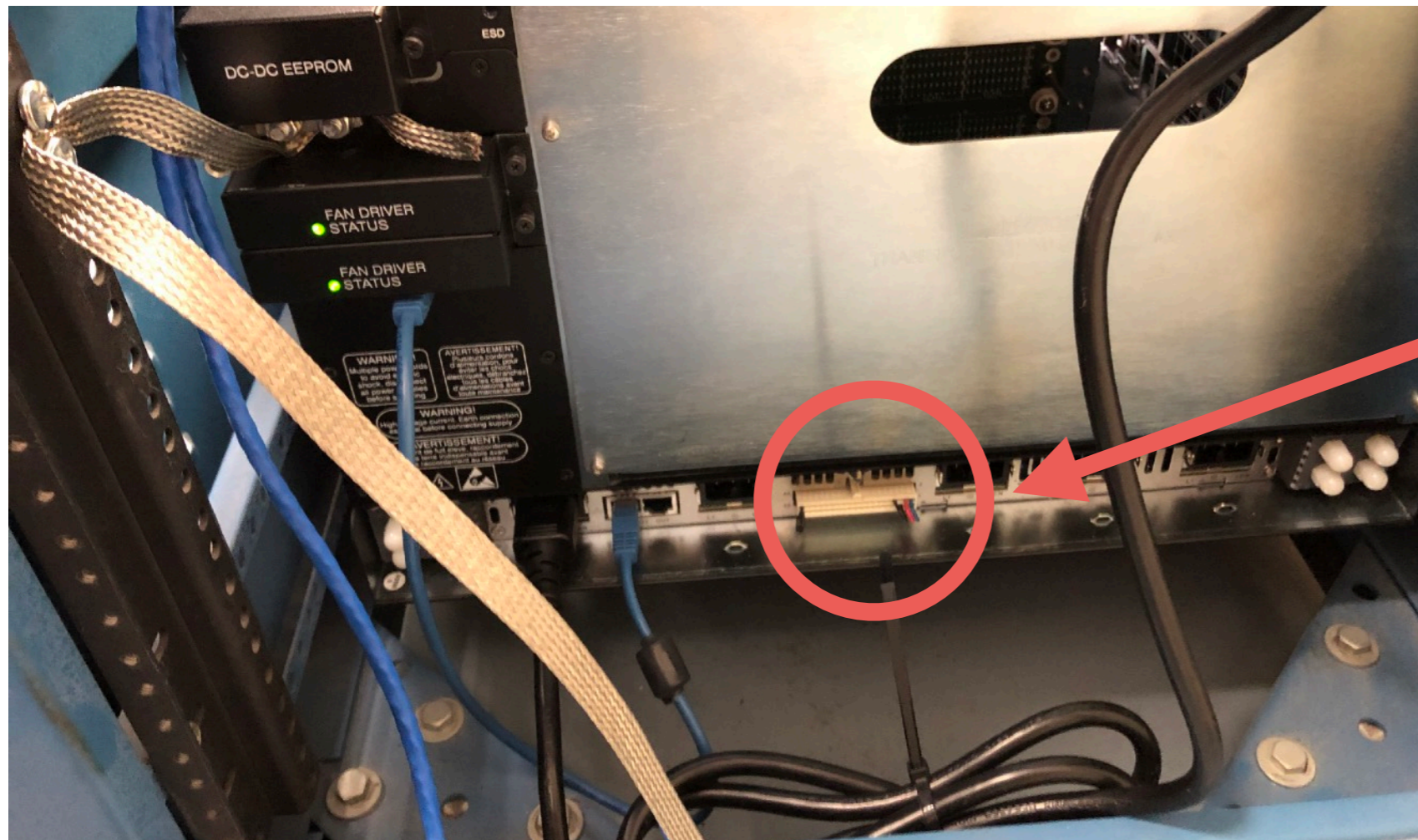
Joakim Olsson (UCI)



- ▶ [Genesis700 manual](#)
- ▶ [ShMM-700R Shelf Manager, Users Guide](#)
- ▶ [ShMM-700R Shelf Manager, External Interface Reference](#)

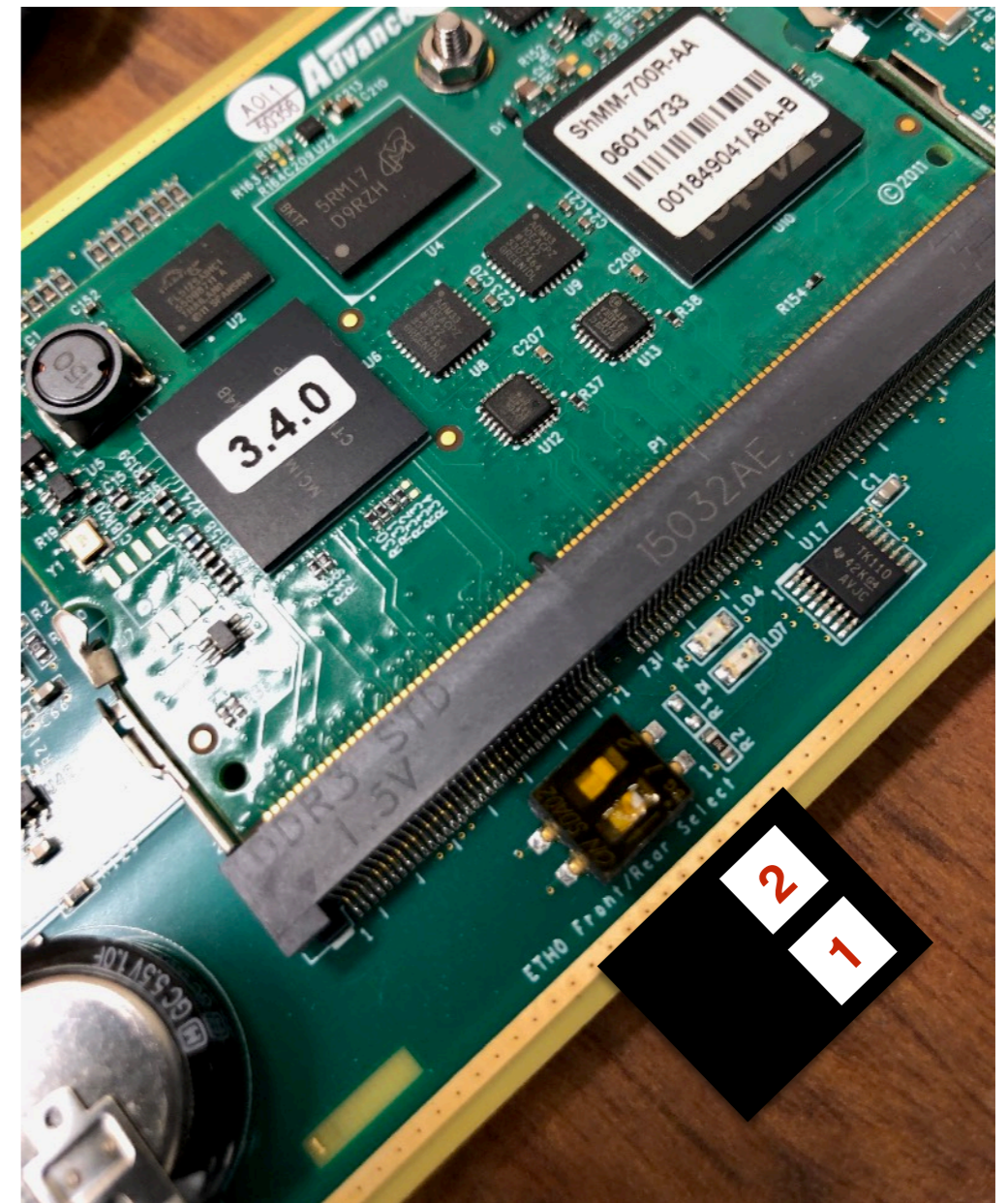
# Installation and earthing of shelf in rack

- ▶ The ATCA shelf is mounted in a standard 19" rack (4 screws at the front)
- ▶ From the manual
  - Jumper settings as on page 27: 1-2, 3-4, 5-8, 39-40
  - Connected earth as on page 42: we used a copper braid as ground wire, see <https://www.digikey.com/product-detail/en/alpha-wire/1223-SV005/A1223SV-100-ND/3702078>



# ShMM-700R shelf manager & connections

- ▶ ShMM-700R shelf manager inserted in the lower slot
- ▶ Ethernet connected to LAN port on shelf manager
- ▶ Serial (RJ45 to USB) connected in the lower-left port
- ▶ Dip switch 1 on the ShMM-700R set as in the picture below



# Connecting via serial port & eth0

## ▶ Serial port (see [manual](#) on page 55): 115200,8,N,1

- Cable: [https://www.amazon.com/gp/product/B0769J9QXP/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o05\\_s00?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B0769J9QXP/ref=ppx_yo_dt_b_asin_title_o05_s00?ie=UTF8&psc=1)
- `minicom -D /dev/tty.usbserial-AK08FUNK -b 115200`

## ▶ Ethernet:

- IP address: 10.0.0.202 (subnet mask: 255.255.255.0)
- login: root (no password)
- `ssh root@10.0.0.202`

## On the ShMM-700R:

```
# ifconfig
eth0      Link encap:Ethernet  HWaddr 00:18:49:04:1A:8A
          inet addr:10.0.0.202  Bcast:10.0.0.255  Mask:255.255.255.0
          inet6 addr: fe80::218:49ff:fe04:1a8a/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:579 errors:0 dropped:0 overruns:0 frame:0
          TX packets:191 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:70969 (69.3 KiB)  TX bytes:22791 (22.2 KiB)
          Base address:0x8000
```

## On my mac:

Configure IPv4:	Manually
IP Address:	10.0.0.4
Subnet Mask:	255.255.255.0

# ShMM-700R software version

```
# clia version
```

```
Pigeon Point Shelf Manager Command Line Interpreter
```

```
Pigeon Point Shelf Manager ver. 3.4.0
```

```
Pigeon Point and the stylized lighthouse logo are trademarks of Pigeon Point Systems.
```

```
Copyright (c) 2002-2014 Pigeon Point Systems
```

```
All rights reserved
```

```
Build date/time: May 29 2014 16:16:43
```

```
Carrier: HPDL/ASIS
```

```
Carrier subtype: 0; subversion: 0
```

```
Cooling management: Default
```

```
Carrier Product ID: ATCA SHELF MANAGER 0007 v0.7
```

```
Chassis Product ID: ATCA 6U 6/7SL 2000 AC/DC 3 Fans(SP) V1.1
```