

AMC 600

Getting started guide

User's manual



Improve
Tomorrow



1. About the Getting started guide

1.1 Symbols for general notes.....	4
1.2 Symbols for hazard statements.....	4
1.3 Technical support	4
1.4 Legal information.....	5

2. Configure AMC 600

2.1 Software.....	7
2.1.1 Download AMC 600 software.....	7
2.1.2 System requirements.....	7
2.1.3 PC tools.....	7
2.2 Connection.....	8
2.2.1 Power connection.....	8
2.3 Programming connection.....	8
2.3.1 Programming connection.....	8
2.4 Access with Ethernet port.....	8
2.4.1 Default IP configuration.....	8
2.4.2 Default Hostname.....	9
2.4.3 Default User and Password.....	9
2.4.4 Test connection.....	9
2.4.5 Test connection with Ping.....	10
2.5 The system web page.....	11
2.5.1 Access to the System web page.....	11
2.5.2 About the System web page.....	11
2.6 Menus.....	12
2.6.1 View modules.....	12
2.6.2 View System information.....	13
2.6.3 View Network configuration.....	14

3. Program AMC 600

3.1 IEC61131-3 (CODESYS) programming.....	15
---	----

4. Additional configuration

4.1 Change advanced network configuration.....	16
4.1.1 Ports.....	16
4.1.2 Real-time mode.....	16
4.2 Extended user management.....	17
4.2.1 User roles access rights.....	17
4.3 Enable SSH (Secure Shell) access.....	18
4.3.1 Create connection with WinSCP.....	18
4.3.2 Create connection with PuTTY.....	21
4.3.3 Change network configuration with SSH.....	22
4.3.4 Change password.....	23
4.4 Setting to local date and time.....	24

5. Access with the Service port

5.1 Manual installation.....	25
5.2 Create connection to the Service port.....	25
5.3 View existing IP address.....	27

6. Update firmware

6.1 View logs.....30

6.2 Create factory reset.....33

1. About the Getting started guide

1.1 Symbols for general notes

NOTE This shows general information.



More information

This shows where you can find more information.



Example

This shows an example.



How to ...

This shows a link to a video for help and guidance.

1.2 Symbols for hazard statements



DANGER!



This shows dangerous situations.

If the guidelines are not followed, these situations will result in death, serious personal injury, and equipment damage or destruction.



WARNING



This shows potentially dangerous situations.

If the guidelines are not followed, these situations could result in death, serious personal injury, and equipment damage or destruction.



CAUTION



This shows low level risk situation.

If the guidelines are not followed, these situations could result in minor or moderate injury.

NOTICE



This shows an important notice

Make sure to read this information.

1.3 Technical support

Technical documentation

Download the technical documentation from the DEIF website: www.deif.com/documentation/

Service and support

DEIF is committed to being available to our customers and partners 24 hours a day, seven days a week, to guarantee the highest levels of service and support.

www.deif.com/support

Training

DEIF arranges **training courses** at DEIF offices worldwide.

www.deif.com/training

Additional service

DEIF offers **service** with design, commissioning, operating and optimisation.

www.deif.com/support/local-office

1.4 Legal information

Disclaimer

DEIF A/S reserves the right to change any of the contents of this document without prior notice.

The English version of this document always contains the most recent and up-to-date information about the product. DEIF does not take responsibility for the accuracy of translations, and translations might not be updated at the same time as the English document. If there is a discrepancy, the English version prevails.

Warranty

The rack may only be opened to remove, replace, and/or add a hardware module. The procedure in the **Installation instructions** must be followed. If the rack is opened for any other reason, and/or the procedure is not followed, then the warranty is void.

Trademarks

DEIF, *power in control* and the DEIF logo are trademarks of DEIF A/S.

Bonjour® is a registered trademark of Apple Inc. in the United States and other countries.

CANopen® is a registered community trademark of CAN in Automation e.V. (CiA).

CODESYS® is a trademark of CODESYS GmbH.

Docker for windows® is a trademark of Docker Inc.

EtherCAT®, *EtherCAT P*®, *Safety over EtherCAT*®, are trademarks or registered trademarks, licensed by Beckhoff Automation GmbH, Germany.

Google® and *Google Chrome*® are registered trademarks of Google LLC.

Linux® is a registered trademark of Linus Torvalds in the U.S. and other countries.

Mozilla® and *Firefox*® are registered trademarks of Mozilla corporation in the U.S. and other countries.

Modbus® is a registered trademark of Schneider Automation Inc.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

All trademarks are the properties of their respective owners.

Copyright

© Copyright DEIF A/S. All rights reserved.

2. Configure AMC 600

2.1 Software

2.1.1 Download AMC 600 software

Download the AMC 600 software from <https://www.deif.com/software>.

Use the filter to select either AMC 600 or AWC 500 products to get the specific software packages for download.

CODESYS IDE

The CODESYS IDE is found under AMC 300 product

AMC 600

- AMC 600 CODESYS Target Support package.
- AMC 600 CODESYS run-time for PCM6.1.

This manual also applies to AWC 500 and the corresponding packages are located here:

AWC 500

- AWC 500 CODESYS Target Support package.
- AWC 500 CODESYS run-time for PCM5.2

2.1.2 System requirements

The requirements for the development PC to install the Development packages, PC tools and drivers are:

- Microsoft Windows 10 or later, 32 bit version.
- Microsoft Windows 10 or later, 64 bit version (Recommended).

As the AMC 600 supports SSH (Secure Shell) and SCP (Secure Copy) as basic communication protocols, it can be accessed from any system supporting these protocols (if enabled).

Not all browsers are suitable for this software. We recommend to use Google Chrome or Mozilla Firefox.

2.1.3 PC tools

The tools WinSCP and PuTTY are used throughout the documentation for additional configuration of the AMC 600

Bonjour service – mDNS service

We recommend the tool Bonjour service as mDNS service.

Download Bonjour service from the official website: https://support.apple.com/kb/DL999?locale=en_US

PuTTY — SSH client (Linux command shell)

The free tool PuTTY for Linux command shell access (SSH communication).

Download PuTTY from the official website: <http://www.chiark.greenend.org.uk/~sgtatham/putty/>

WinSCP – SFTP client (for file transfer)

For secure file transfer (SFTP or SCP communication), for example for configuration and software updating, we recommend the free tool WinSCP.

Download WinSCP from the official web-site: <https://winscp.net/eng/index.php>

Windows PowerShell SSH and SCP are built-in features. Some of the more advanced cryptographic features require Linux, Docker for Windows or WMware.

2.2 Connection

2.2.1 Power connection

The AMC 600 requires a 24 VDC power supply to the power supply terminals of the PDM6-1/PDM6-2 module.




More information

See the **Data sheet** for the technical specifications and the **Installation instructions** for how to wire the power supply.

The AMC 600 system software is operational for approx. 20 seconds from power on.

NOTICE



Sudden power off

The AMC 600 file system is tolerant to sudden power off, and parameters are automatically stored in the non-volatile memory. No special shutdown procedure is required.

2.3 Programming connection

2.3.1 Programming connection

The AMC 600 is configured and programmed via the Ethernet ports on the PCM6-1 module, both for development (direct access) and when installed on site (remote).

The configuration is typically made with the AMC 600 web page. Special configuration can be made by editing configuration files stored in the AMC 600 file system, and accessed via the SSH (Linux command shell) or SFTP (file transfer).

For service purposes by DEIF or direct access to the PCM6.2 in special cases, the Service port is used for SSH (Linux command shell) access via USB serial communication.

2.4 Access with Ethernet port

The PCM module must be connected to the development computer directly with an Ethernet cable or over an Ethernet network. By default, the PCM only offers secure connections.

2.4.1 Default IP configuration

The AMC 600 is supplied with the following default network configuration (static IP address) on Ethernet port 1 (eth0):

IP	192.168.20.13
Mask	255.255.255.0
Gateway	192.168.20.12

Ethernet port 2 (eth1) is by default configured for DHCP.

2.4.2 Default Hostname

Default hostname is:

```
pcm61-sn [<1>]
```

Where *sn* is the serial number of the PCM6.1 module.

A PC setup to IPv4 with a Link-local address and mDNS support can access the system web pages on:

```
https://[hostname]
```

2.4.3 Default User and Password

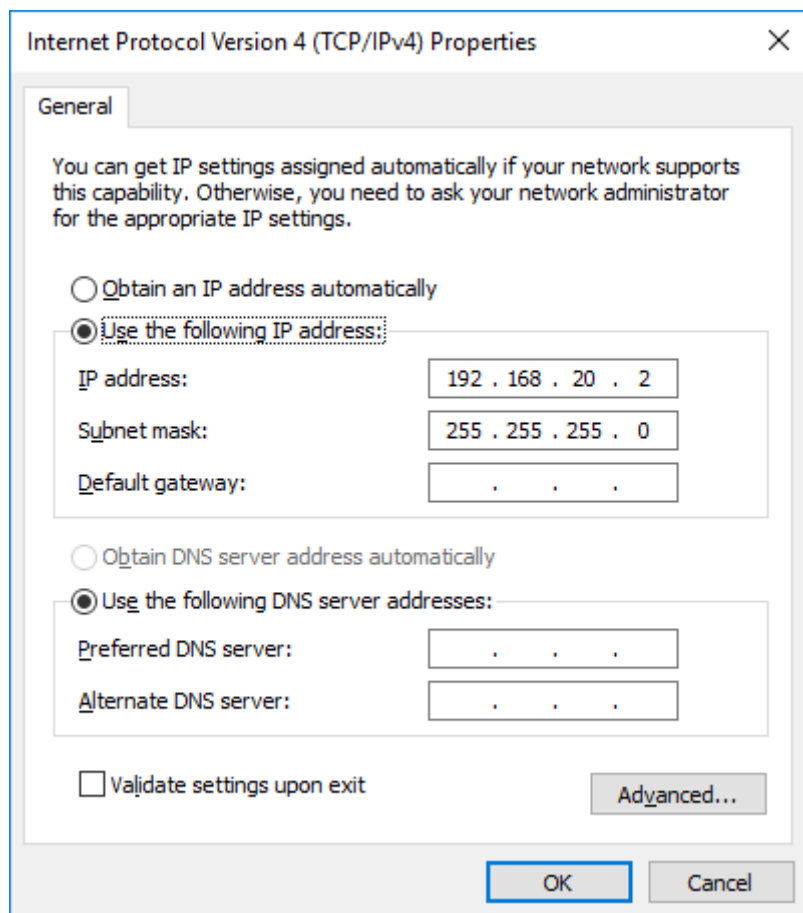
The AMC 600 is supplied by default with one user account (root):

Default username	root
Default password	deif7800

Additional user roles and passwords (*Operator, Service, Administrator*) can be added in the Users menu.

2.4.4 Test connection

Your PC must be setup to the same subnet range, that is to say, by giving your computer the IP 192.168.20.2:

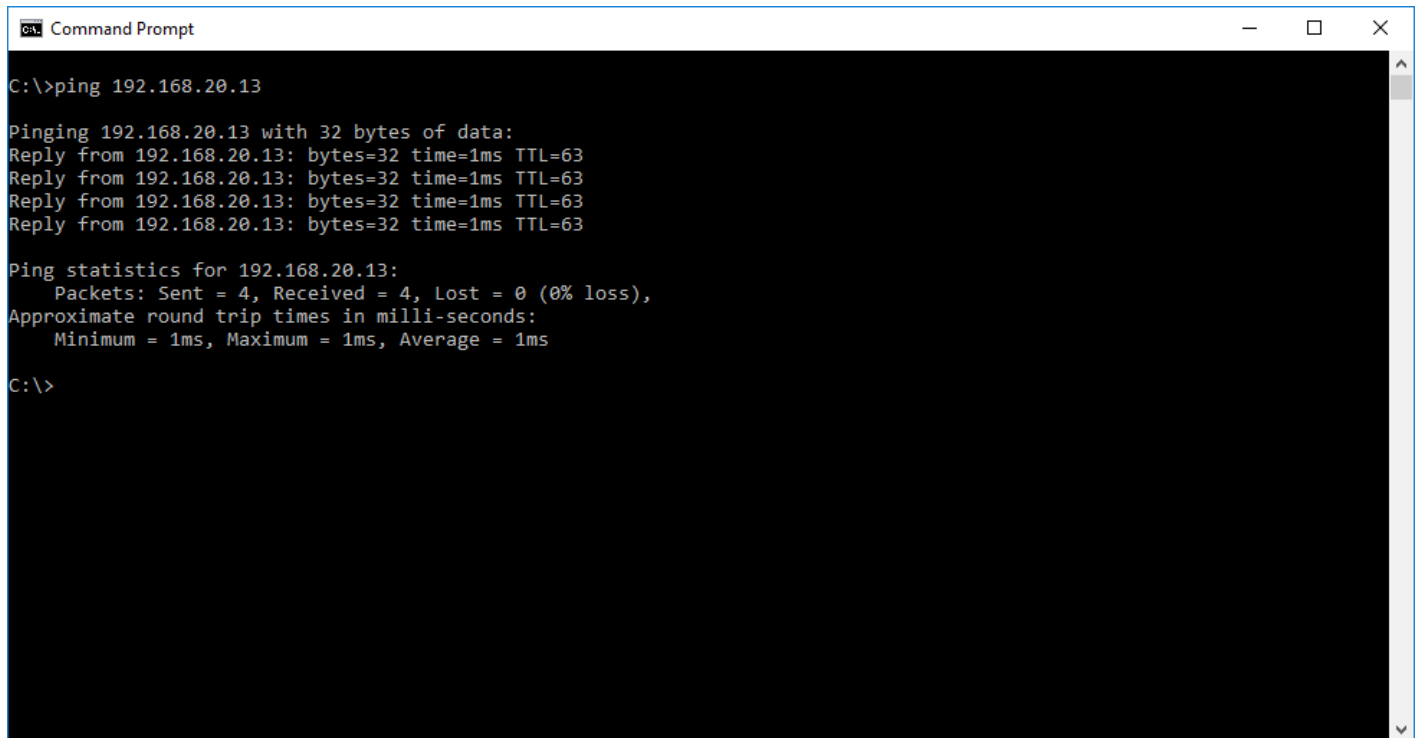


To test the connection open a web-browser and enter the IP (<https://192.168.20.13>) of the AMC 600. This will show the AMC 600 webpage.

2.4.5 Test connection with Ping

The connection can be tested by sending a ping to the AMC 600:

```
ping 192.168.20.13
```



```
Command Prompt

C:\>ping 192.168.20.13

Pinging 192.168.20.13 with 32 bytes of data:
Reply from 192.168.20.13: bytes=32 time=1ms TTL=63
Reply from 192.168.20.13: bytes=32 time=1ms TTL=63
Reply from 192.168.20.13: bytes=32 time=1ms TTL=63
Reply from 192.168.20.13: bytes=32 time=1ms TTL=63

Ping statistics for 192.168.20.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```

If there is no connection:

- Check the Ethernet cable.
- Check the power to the AMC 600 (Green Power LED status of PDM6.x module or PDM5.1/PCM5.2 for AWC 500).
- Check your PC firewall settings.
- Check if the AMC 600 is configured with another IP address than the default.



More information

See [Access with the Service port](#) for how to view the existing IP address.

If the network settings are OK, then continue with the [Programming](#).

Continue below to see how to make a connection to the AMC 600 with the SSH client (PuTTY) or the SFTP client (WinSCP).

2.5 The system web page

2.5.1 Access to the System web page

To access the AMC 600 system page, open a browser and go to:

```
https://192.168.20.13
```

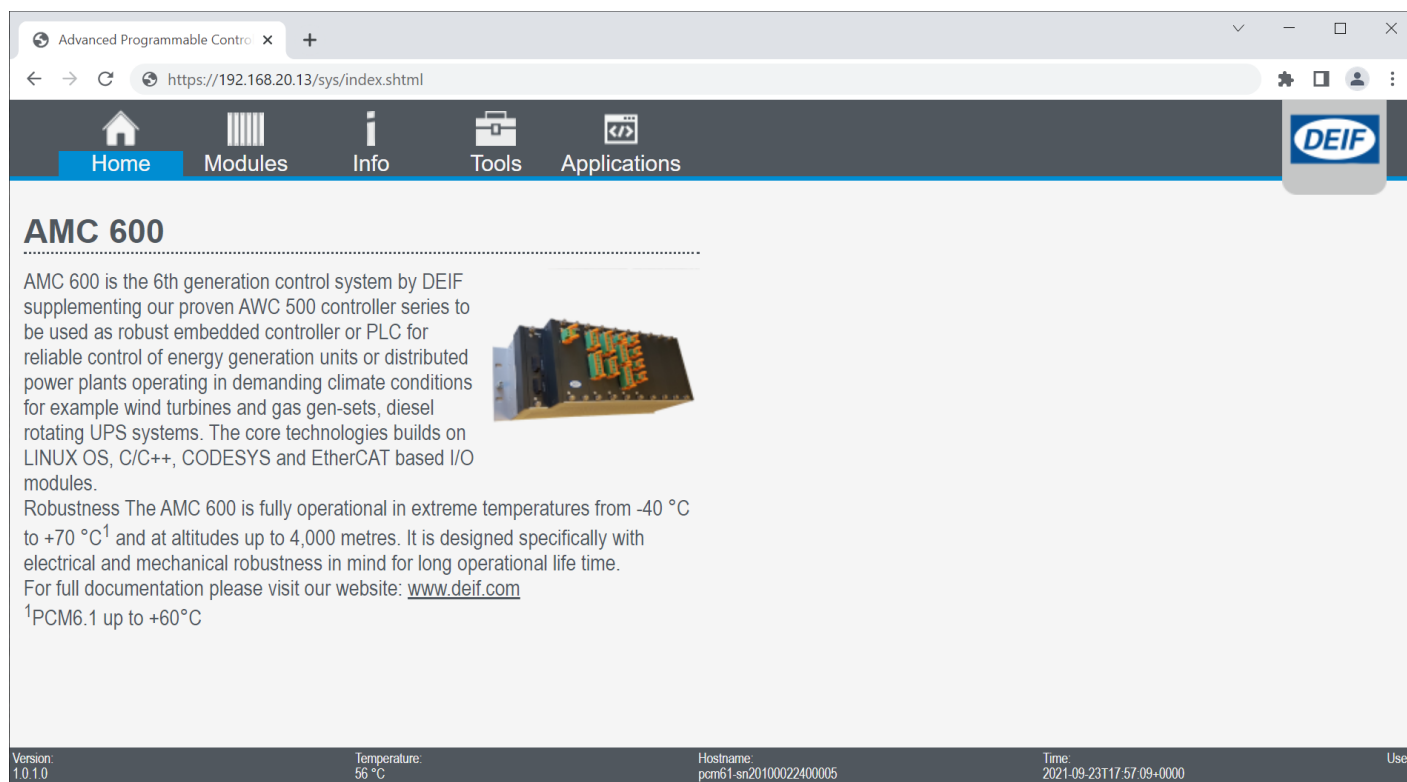


More information

See [Test the connection](#) if you cannot access the web page.

2.5.2 About the System web page

When you are logged in, you get an overview of the system:



No.	Item	Notes
1	Home	This page.
2	Module	Overview of the active module configuration.
3	Info	System information.
4	Tools	System tools - Logs and firmware updates.
5	Applications	Control application execution.

2.6 Menus

2.6.1 View modules

Select **Modules** to see an overview of the available modules:

Advanced Programmable Contro

+

https://192.168.20.13/sys/modules.shtml

Home

Modules

Info

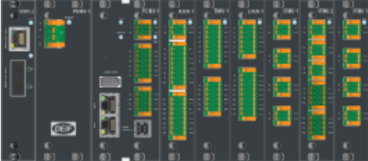
Tools

Applications

DEIF

Module overview

Information about the modules in the system can be seen below. **Note** the information is only read during startup of the PCM.



Name	Software version	Current	Pos.
PDM6.1		2500	
PCM6.1 Computer Module	1.0.1.0	2500	0
AIO6.1 Analogue I/O Module	1.0.0.0	-270	1
TIM6.1 Temperature Input Module	1.0.0.0	-270	2
DIO6.1 Digital Input and Output Module	N/A	-40	3
IFM6.1 Interface and Fieldbus Module	1.0.1.3	-280	4
IFM6.2 Interface and Fieldbus Module	1.0.0.0-52-g3979f9c	-249	5
IFM6.1 Interface and Fieldbus Module	1.0.1.3	-280	6
SIM6.2 Station Interface Module	N/A	2500	7
Available current in rack		6111	

Locate PCM modul

Click the below button to rapidly flash the Status LED on the PCM for 30 seconds

Flash Status LED

Version:
1.0.1.0

Temperature:
56 °C

Hostname:
pcm61-sn20100022400005

Time:
2021-09-23T17:54:43+0000

User:

2.6.2 View System information

Select **Info** to see a summary of the System information:

Advanced Programmable Contro

+

https://192.168.20.13/sys/info.shtml

Home

Modules

Info

Tools

Applications

Firmware

OS version:	1.0.1.0
Bootloader version:	1.0.0.0

Resources

CPU frequency:	1200 MHz
CPU load:	13% (cpu0: 12% cpu1: 14%)
Memory:	929 MB free, 8% used
Diskspace:	3003 MB available, 2% used
Uptime:	14 days 6 hours 33 minutes

Version:
1.0.1.0

Temperature:
56 °C

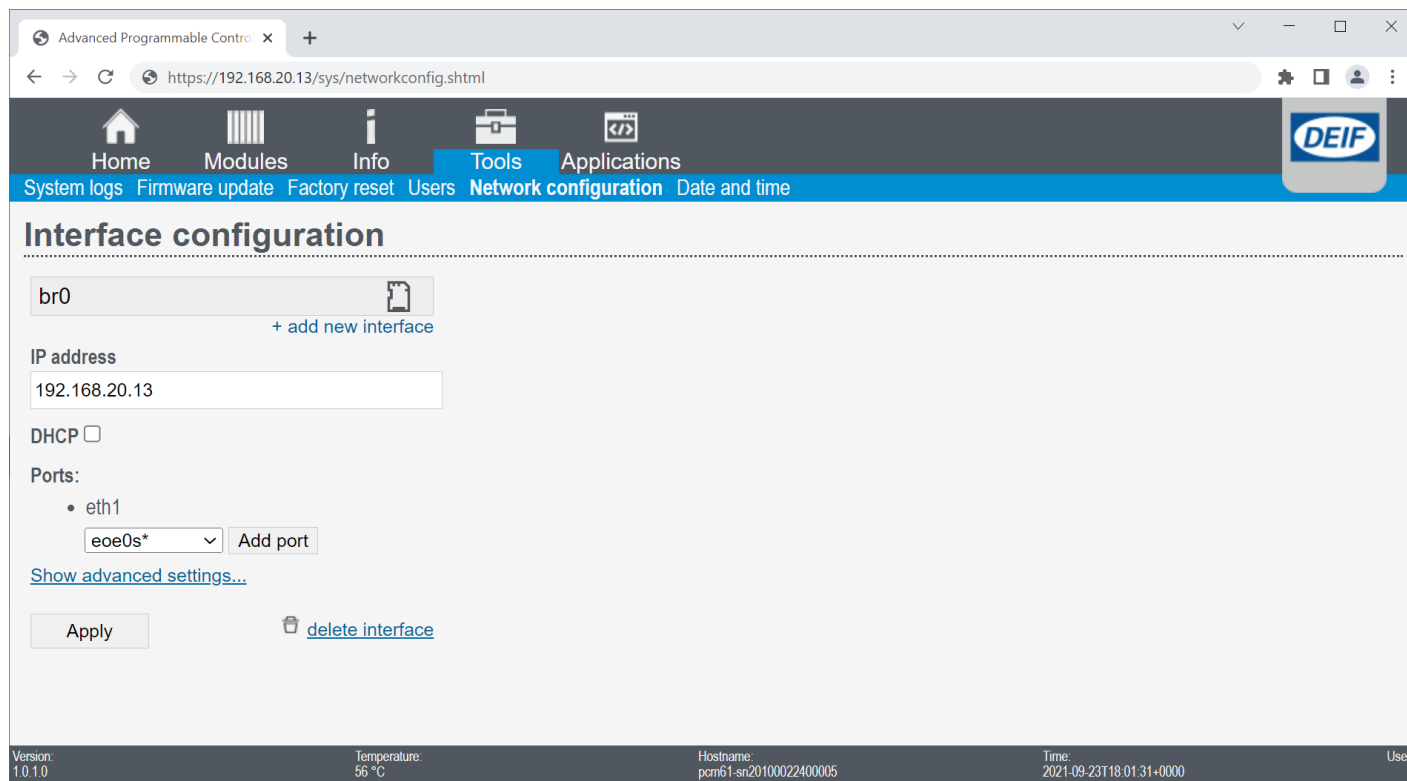
Hostname:
pcm61-sn20100022400005

Time:
2021-09-23T17:57:56+0000

User:

2.6.3 View Network configuration

Select **Tools > Network configuration** to see the controller IP and Gateway address:



The screenshot shows a web browser window with the URL `https://192.168.20.13/sys/networkconfig.shtml`. The page has a dark blue header with the DEIF logo on the right. Below the header is a navigation bar with icons and labels for Home, Modules, Info, Tools (selected), and Applications. A secondary navigation bar contains links for System logs, Firmware update, Factory reset, Users, Network configuration (selected), and Date and time. The main content area is titled "Interface configuration" and shows a configuration form for the interface "br0". The form includes a text field for the IP address set to "192.168.20.13", a checkbox for DHCP, and a section for ports with "eth1" listed and a dropdown menu showing "eoe0s*" with an "Add port" button. At the bottom of the form are "Apply" and "delete interface" buttons. A footer bar displays system information: Version 1.0.1.0, Temperature 56 °C, Hostname pcm61-sn20100022400005, Time 2021-09-23T18:01:31+0000, and a User field.


Advanced Programmable Contro x +

https://192.168.20.13/sys/networkconfig.shtml

Home Modules Info Tools Applications

System logs Firmware update Factory reset Users Network configuration Date and time

Interface configuration

br0  + add new interface

IP address

192.168.20.13


DHCP ☐

Ports:

- eth1

eoe0s* Add port

[Show advanced settings...](#)

Apply  [delete interface](#)

Version: 1.0.1.0 Temperature: 56 °C Hostname: pcm61-sn20100022400005 Time: 2021-09-23T18:01:31+0000 User:



More information

See [Change advanced network configuration](#) for how to configure these settings.

3. Program AMC 600

3.1 IEC61131-3 (CODESYS) programming



More information

See **AMC 600 CODESYS Development package 4189340814** for a guide on how to install the AMC 600 CODESYS development package and the first steps to get started with it.


4. Additional configuration

4.1 Change advanced network configuration

Under `Tools > Network configuration` the network interface configurations for each port (eg. `eth0` or `eth1`) or bridged connections between ports (eg. `br0`) can be configured.

The screenshot shows a web browser window with the URL `https://192.168.20.13/sys/networkconfig.shtml`. The page has a navigation bar with tabs: Home, Modules, Info, Tools, and Applications. Below the tabs are links: System logs, Firmware update, Factory reset, Users, Network configuration (active), and Date and time. The DEIF logo is in the top right corner.

Interface configuration

`br0`  [+ add new interface](#)

IP address
`192.168.20.13`

Type
`bridge`

Name
`br0`

DHCP ☐

Netmask
`255.255.255.0`

Gateway
`192.168.20.12`

DNS, primary

DNS, secondary

Real-time mode ☐

Ports:

- `eth1`
- `eee0s*`

[Show simple settings...](#)

Version: 1.0.1.0 Temperature: 56 °C Hostname: pcm61-sn20100022400005 Time: 2021-09-23T18:16:11+0000 User: root

4.1.1 Ports

When configuring a bridge up, you can specify the **Port** that should be included in the bridge.

4.1.2 Real-time mode

When checking the box `Real-time mode` the priority of the Ethernet is raised to priority 50, but still below the real-time priorities in CODESYS. This enables real-time communication to for example: Power converters.

4.2 Extended user management

Under **Tools** > **Users** the additional users : **Admin**, **Service** and **Operator** user roles can be enabled with password.

Start by providing password for **Admin**. Once **Admin** password has been set, the root user is disabled. You can then extend with Service and finally Operator user roles.

NOTICE



SSH user password

The SSH user password needs to be changed via the SSH access.

Advanced Programmable Control

https://192.168.20.13/sys/users.shtml

Home

Modules

Info

Tools

Applications

System logs

Firmware update

Factory reset

Users

Network configuration

Date and time

DEIF

Change password

▼

admin

Password

Repeat password

Set password

Version: 1.0.1.0

Temperature: 56 °C

Hostname: pcm61-sn20100022400005

Time: 2021-09-23T18:02:31+0000

User: root

4.2.1 User roles access rights

View	Default user	Operator	Service	Admin	Root
Home	●	●	●	●	●
Info	●	●	●	●	●
Tools	●	●	●	●	●
Tools > System log	●	●	●	●	●
Tools > System log > Download		●	●	●	●
Tools > Factory reset				●	●
Tools > Network view	●	●	●	●	●
Tools > Network change			●	●	●

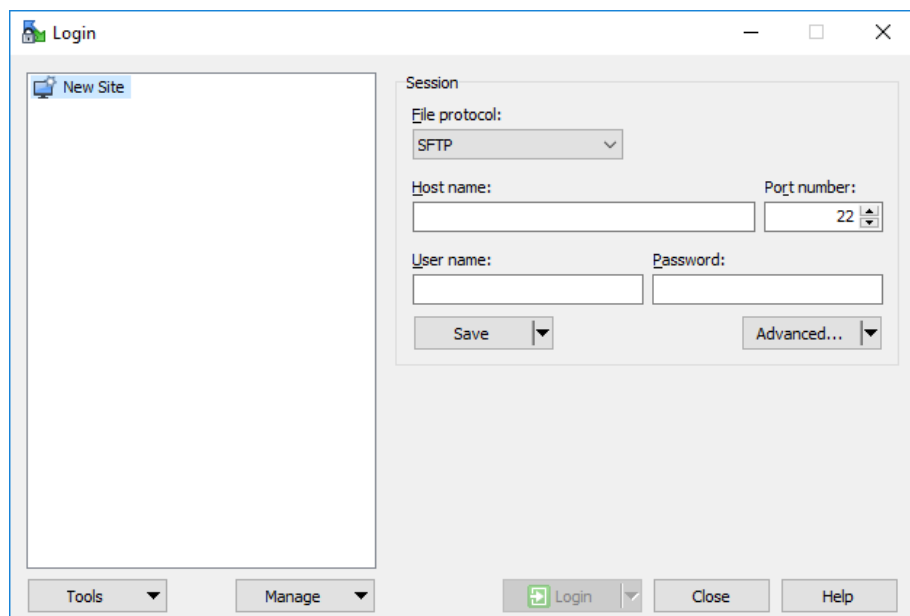
4.3 Enable SSH (Secure Shell) access

By default SSH access is enabled on the AMC 600.

4.3.1 Create connection with WinSCP

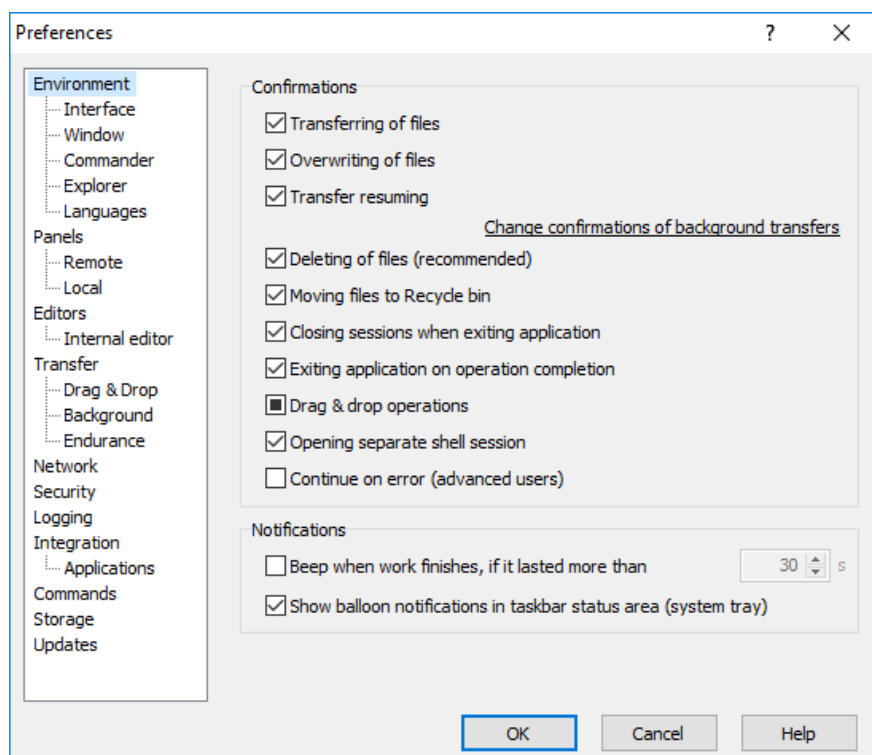


Launch WinSCP:

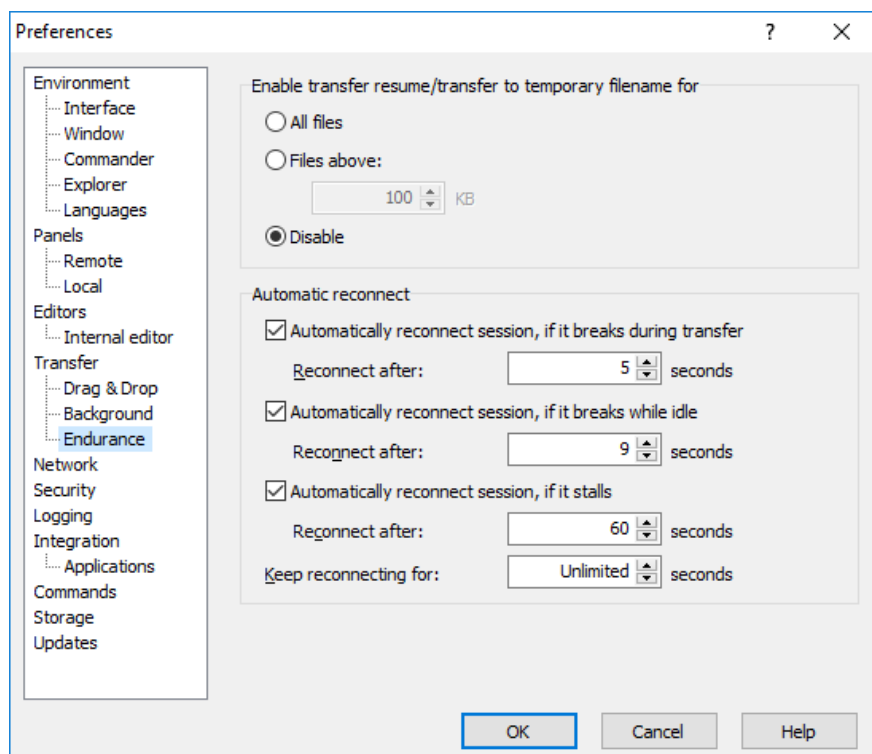


When using file transfer, make sure transfer to temporary filenames is disabled.

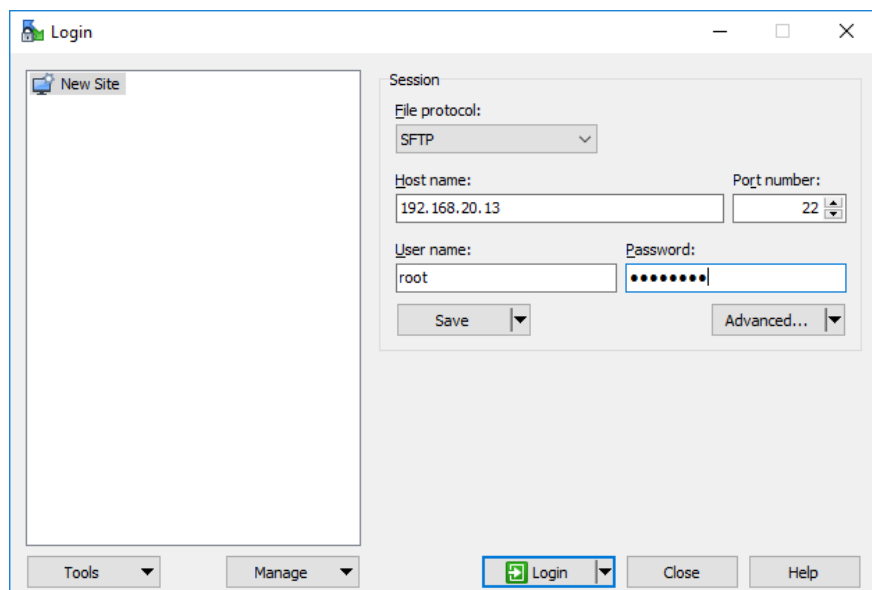
To disable file transfer to temporary filenames, go to **Tools**, select **Preferences** and **Transfer > Endurance**:



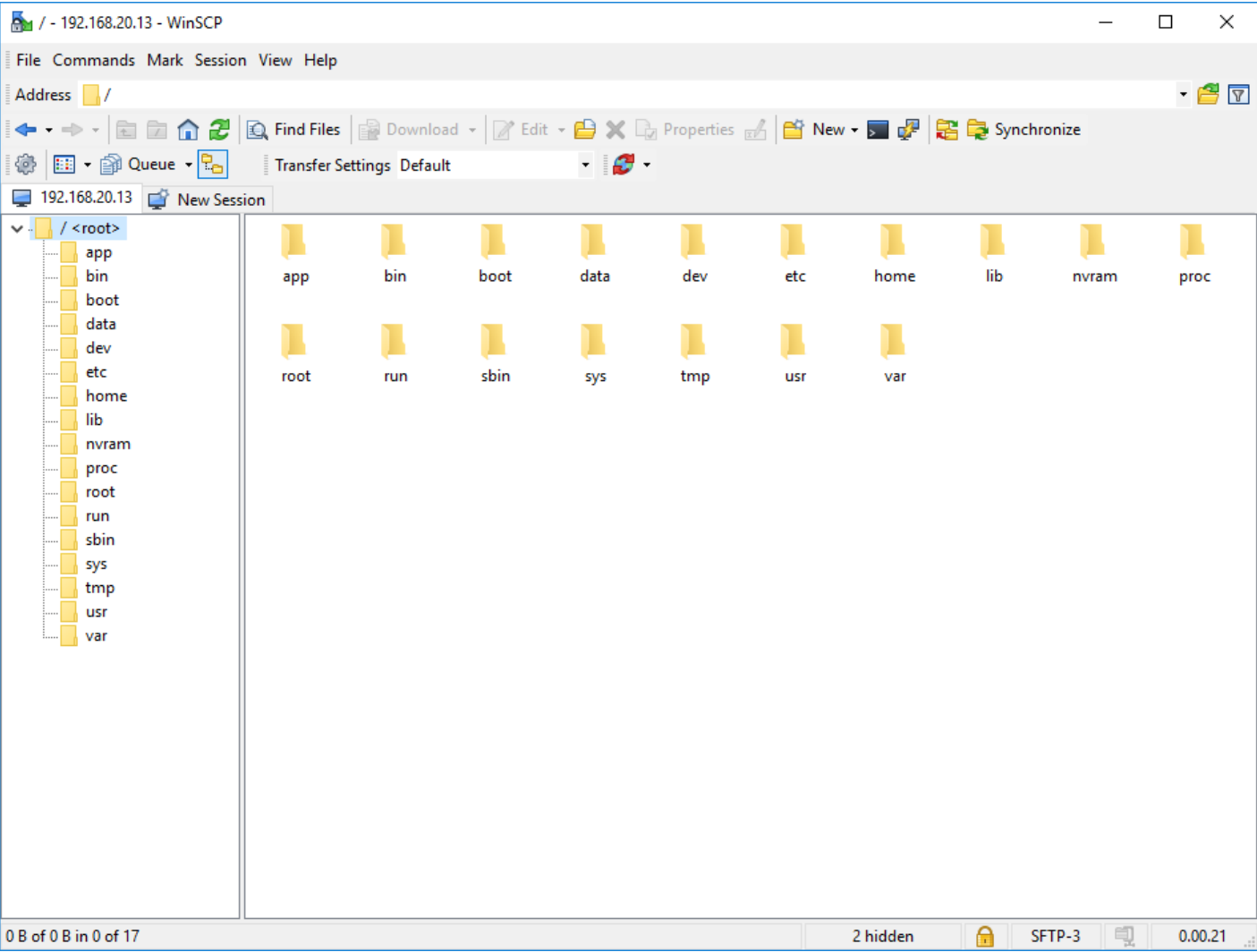
Then disable transfer to temporary file:



Creating a session to AMC 600 go to Session and fill in Hostname, User name and password. Save (Save...) the session for later or press Login:



This will open a session:

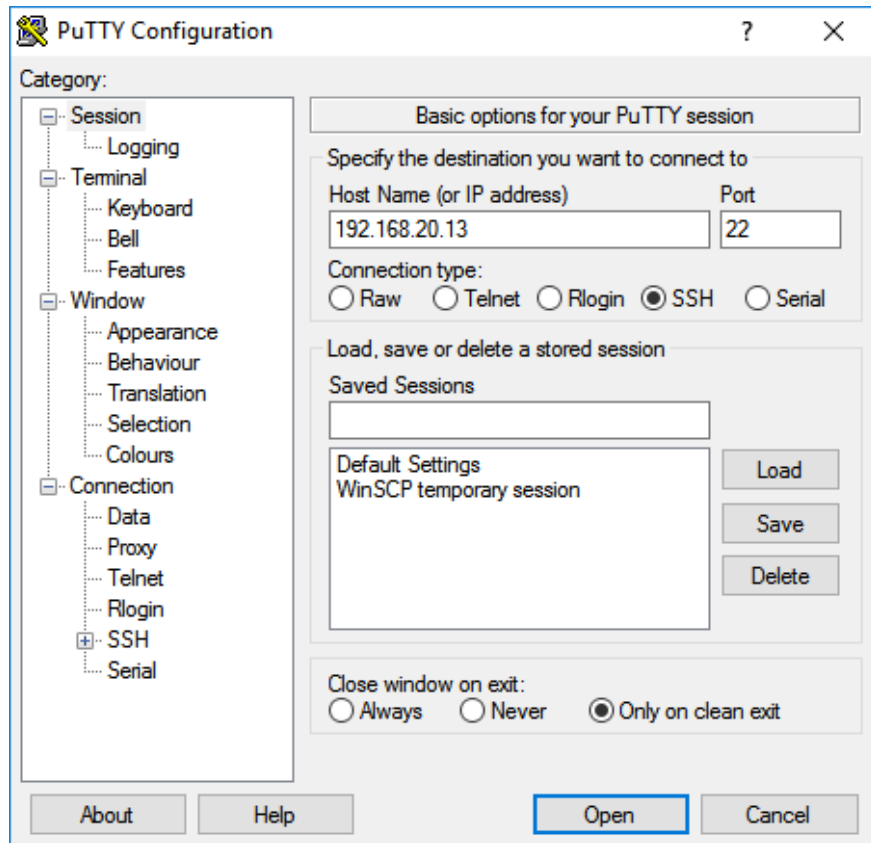


4.3.2 Create connection with PuTTY

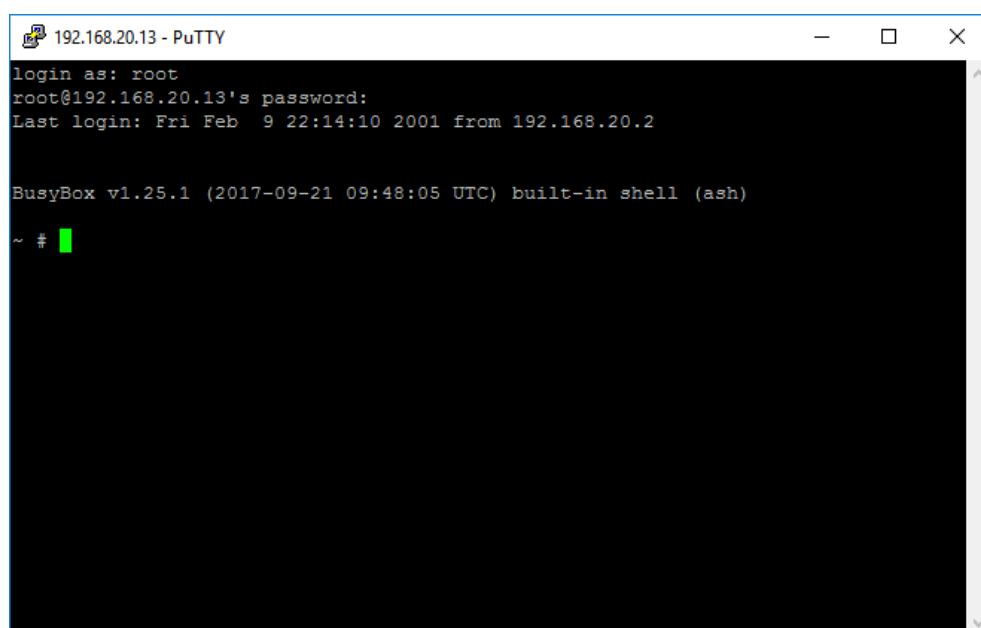


Launch PuTTY:

In the PuTTY Configuration window enter IP address, ensure Connection type is SSH, and port is 22, then open:



This opens the Linux command shell, prompting for user name –first type "root" [ENTER] – followed by password – type "deif7800" [ENTER] – to log in:



4.3.3 Change network configuration with SSH

It is highly recommended to use the AMC 600 webpage to configure the network settings. However the SSH command `difconfig` is supported by all OS versions 1.0.0.0 and above for PCM6-1.

Reset IP to factory default

```
~ # difconfig reset
```

This script will delete interface file and switch to factory default.

For example use:

```
~ # difconfig reset
```

Reboot the OS to apply the new configuration.

Change IP to DHCP

```
~ # difconfig add --dhcp
```

This script will set the network configuration for eth0 or eth0 to dhcp client mode. Commonly, eth1 is set for static IP and eth2 is set for DHCP.

For example use:

```
~ # difconfig add eth1 -dhcp
```

Network configuration of eth1 changed to DHCP. Reboot the OS to apply the new configuration.

To check the change, issue:

```
~ # difconfig read eth1
```

Name : eth1

Type : dhcp

IP : 0.0.0.0

Netmask: 0.0.0.0

Change static IP address

```
~ # difconfig add --ipaddr --netmask --gateway
```

This script will set the network configuration to use static ip.

For example use:

```
~ # difconfig add eth0 --ipaddr 192.168.20.13 --netmask 255.255.255.0 -gateway 192.168.20.1
```


To check the change, issue:

```
~ # difconfig read eth0
```

Name : eth0

Type : static

IP : 192.168.20.13

Netmask: 255.255.255.0

Gateway: 192.168.20.1

Changing hostname

By default the hostname consists of the serial number of the PCM6-1.

To change it create a file named:

```
hostname
```

in

```
/data/sysconf
```

containing the new name.

4.3.4 Change password

NOTICE



Cyber security

The user has the full responsibility for the security level of the AMC 600 system. It is strongly recommended to change the password before putting the systems into a production environment.

To change password create a connection to the PCM:

Use "passwd" to change the "root" password:

```
~ # passwd
```

Changing password for root

New password: <your new password>

Retype password: <your new password>

Password for root changed by root

4.4 Set to local date and time

When supplied the AMC 600 has UTC time as default time. The time in the unit can both be set with the command shell, or with NTP (Network time protocol). See the Operative system software document for details on setting up NTP.

Set the date and time with the following command:

```
~ # date [yyyymmddHHMM]
```

Display the data with following command:

```
~ # date
```

Write the current time to the HW RTC, this is done automatically on reboot and ones each hours.

```
~ # hwclock -w
```



Example

```
~ # hwclock -r
Thu May 12 09:53:48 2011 0.000000 seconds
~ # date 201105120954
Thu May 12 09:54:00 UTC 2011
~ # date
Thu May 12 09:54:03 UTC 2011
~ # hwclock -w
~ # hwclock -r
Thu May 12 09:54:11 2011 0.000000 seconds
~ #
```

5. Access with the Service port

To configure the AMC 600 with the Service port, the development PC is connected with a Standard USB-B cable.

NOTICE



USB driver

The USB driver is automatically installed from Windows Update, when connecting the USB cable to the AMC 600. If no connection to Windows Update is available the driver can be manually installed.

5.1 Manual installation

The USB serial driver for Microsoft Windows 10 is available for download at the DEIF FTP Server:

```
AWC_500/PC tools/USB_Service_Port_Driver/CP210xVCPInstaller_x64.exe
```

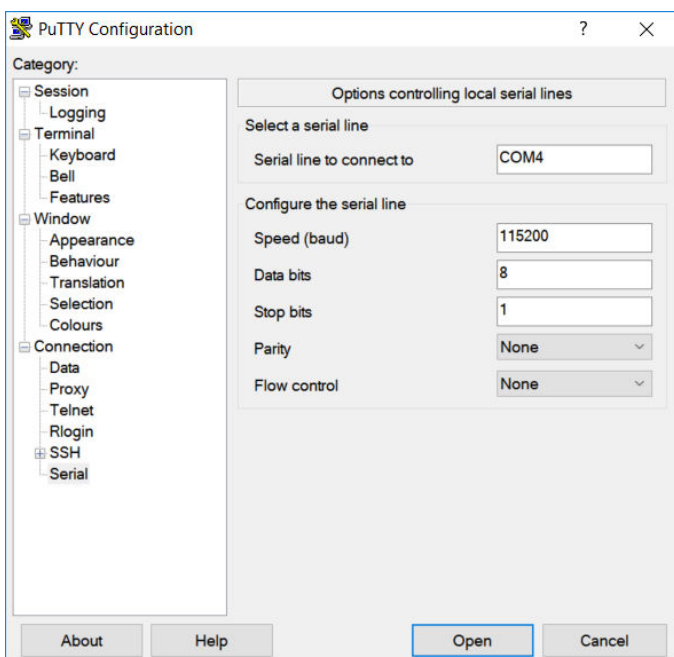
5.2 Create connection to the Service port

Use a "terminal program" for the serial connection.

The default communication parameters are:

Speed	115,200 bps
Data bits	8
Stop bits	1
Parity	None
Flow control	None

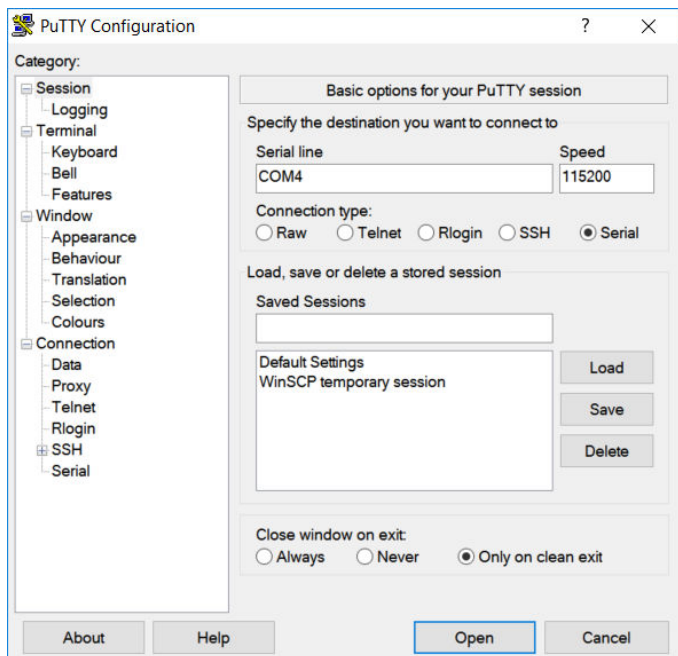
Example connection using PuTTY:



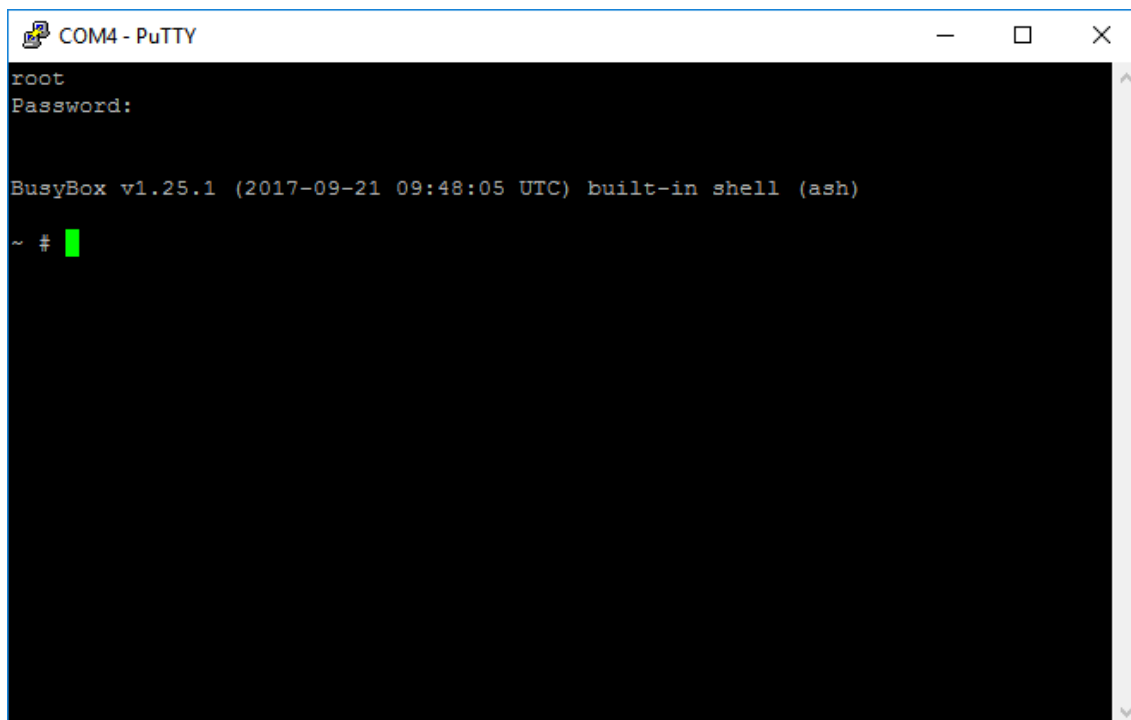
Connect to the AMC 600 with the USB-B cable.

Open PuTTY and configure it to serial communication:

1. Select the serial radio button.
2. Change the com port to match the USB-cable.
3. Set communication speed.
4. Select open.



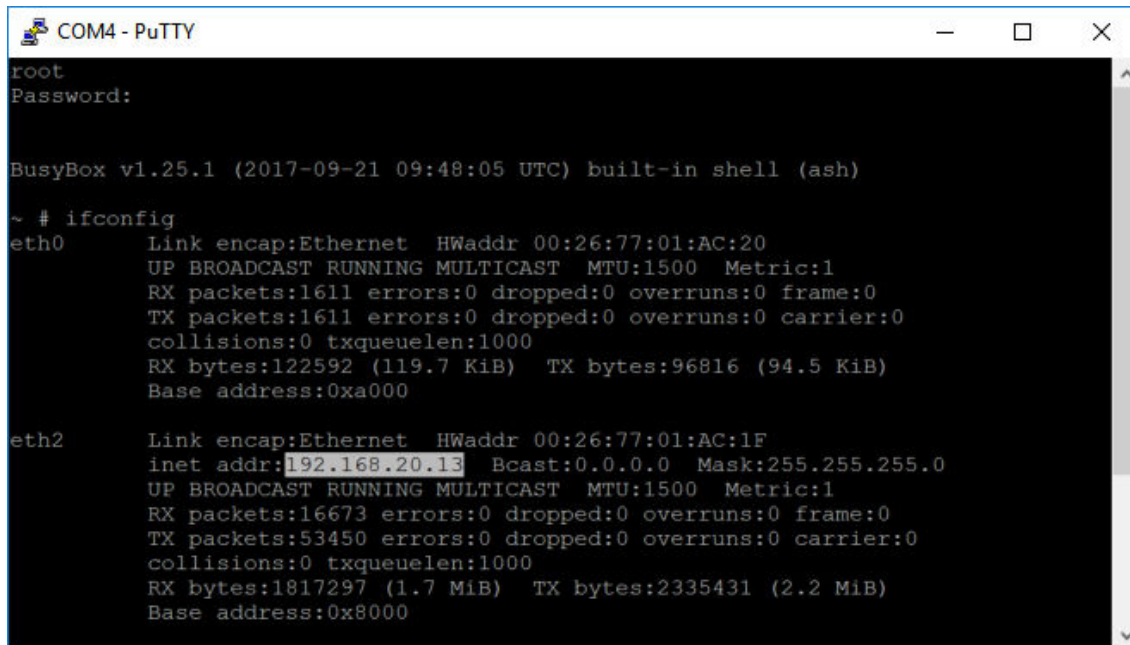
In the newly opened terminal window enter `root` and press enter, and then enter root password and press enter again (default root password is: `deif7800`).



5.3 View existing IP address

To view current IP address type:

```
~ # ifconfig
```



```
COM4 - PuTTY
root
Password:

BusyBox v1.25.1 (2017-09-21 09:48:05 UTC) built-in shell (ash)

~ # ifconfig
eth0      Link encap:Ethernet  HWaddr 00:26:77:01:AC:20
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1611 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1611 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:122592 (119.7 KiB)  TX bytes:96816 (94.5 KiB)
          Base address:0xa000

eth2      Link encap:Ethernet  HWaddr 00:26:77:01:AC:1F
          inet addr:192.168.20.13  Bcast:0.0.0.0  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:16673 errors:0 dropped:0 overruns:0 frame:0
          TX packets:53450 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1817297 (1.7 MiB)  TX bytes:2335431 (2.2 MiB)
          Base address:0x8000
```

The AMC 600 can now be accessed via Ethernet on the above IP address.

To reset the IP address to factory default use the command (see section "Reset IP to factory default):

```
~ # difconfig reset
```

Alternatively:

```
~ # factory-reset -n
```

The AMC 600 then has a new IP-configuration. Reboot the AMC 600 for the changes to take effect. To reboot the AMC 600, type:

```
~ # reboot
```

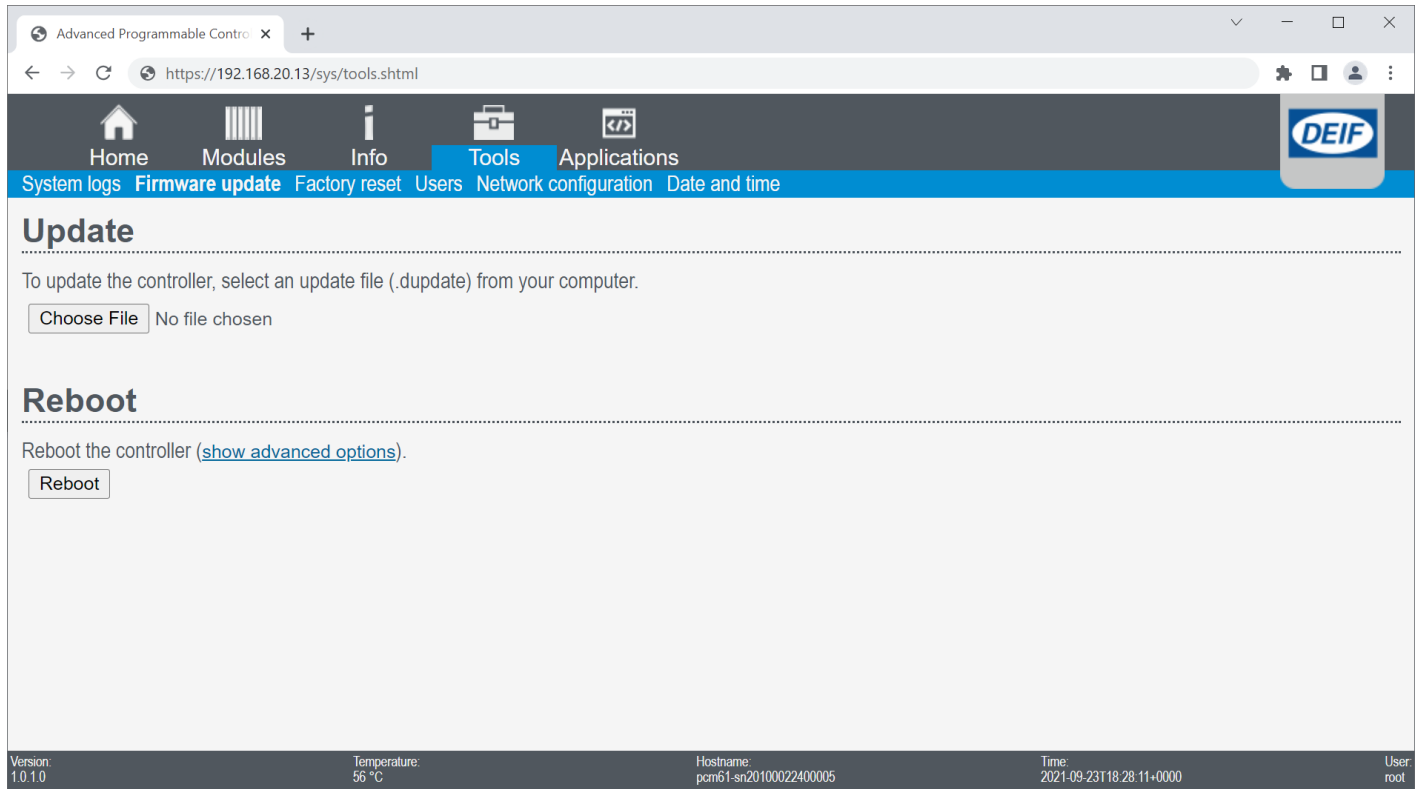
Wait 10 seconds and the AMC 600 is ready for connections at the default IP-address 192.168.20.13 and can be accessed via the Ethernet port.

6. Update firmware

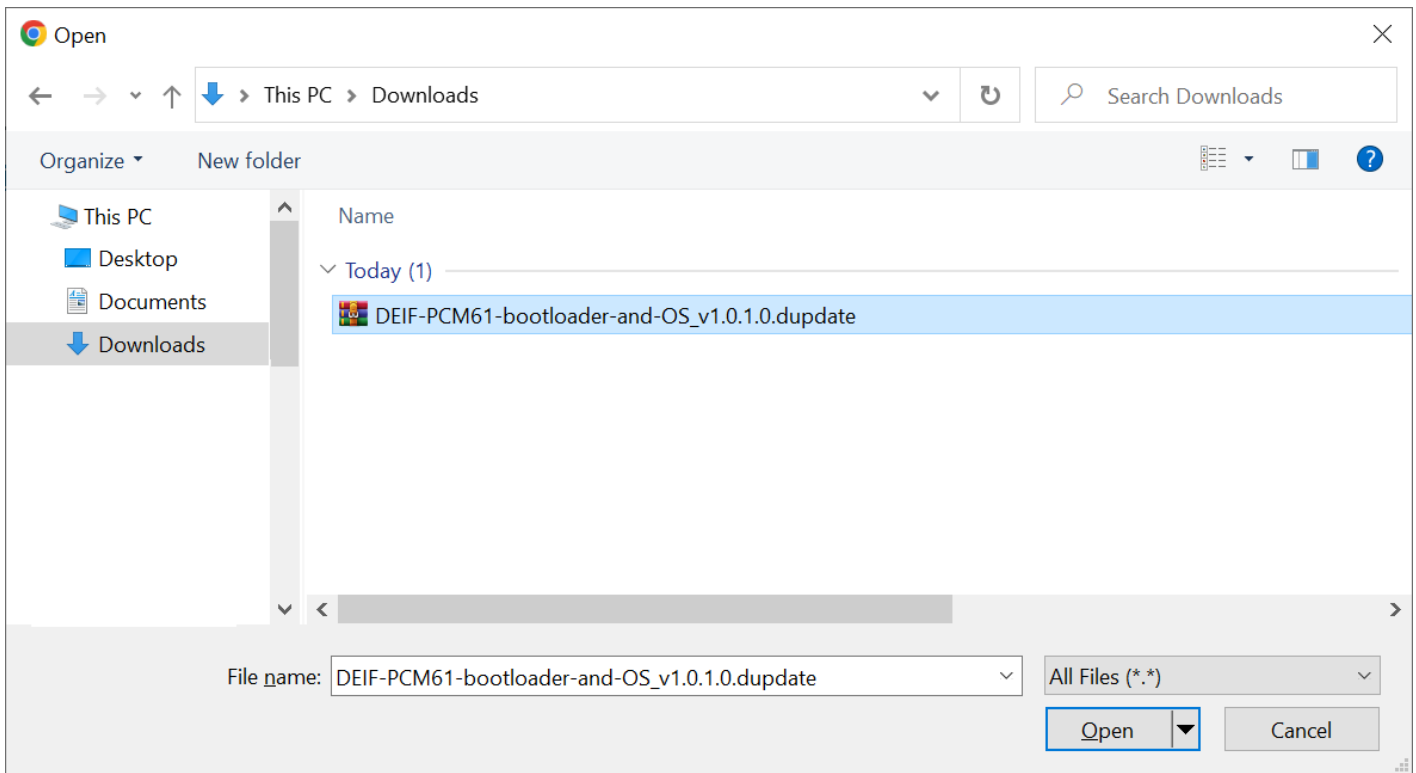
The firmware can be updated via webpage:

`https://192.168.20.13`

Click **Tools** > **Firmware update** on the webpage.

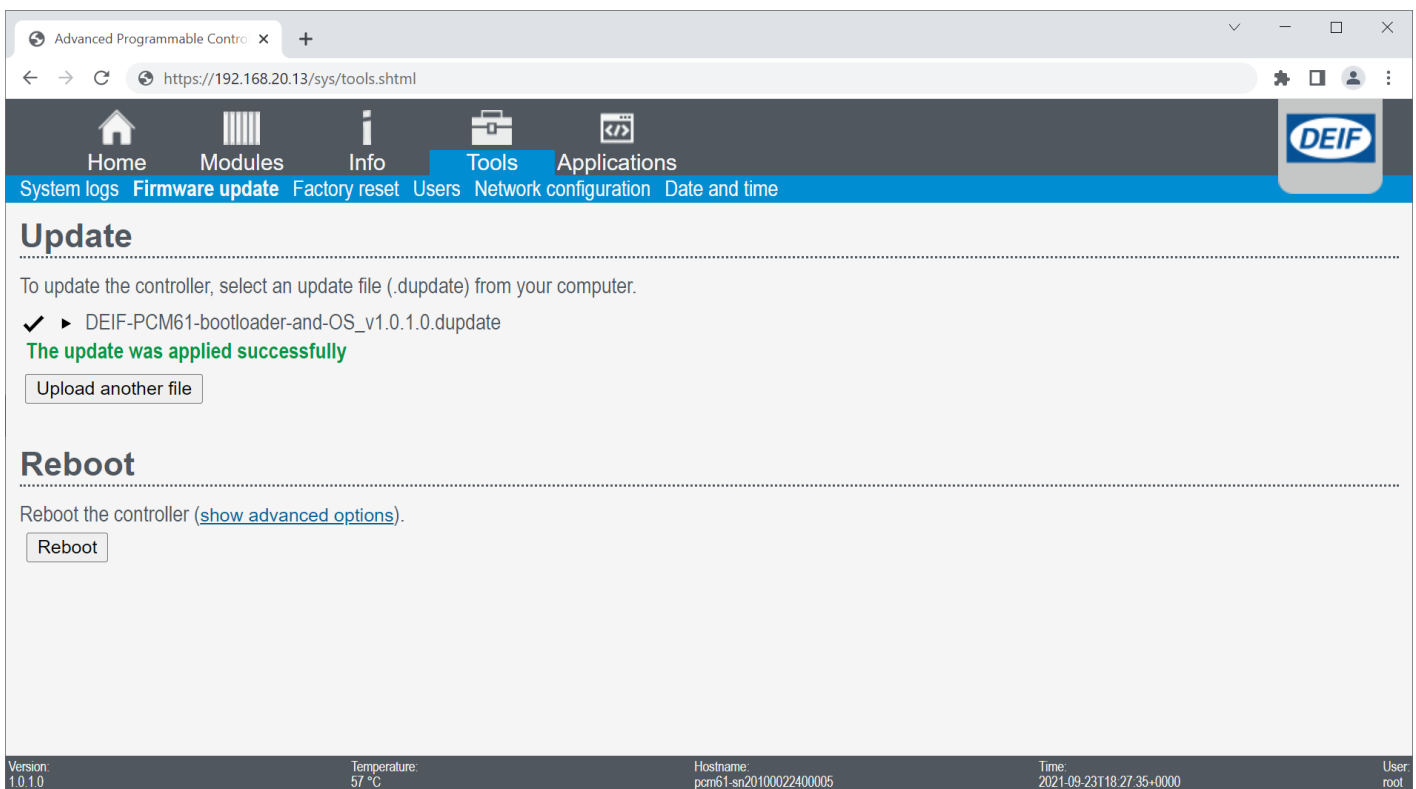


Next, click "Choose File" button to select the dupdate file on the local PC. (E.g. DEIF-AMC-600-PCM61-bootloader-and-OS_v1.0.1.0.dupdate)

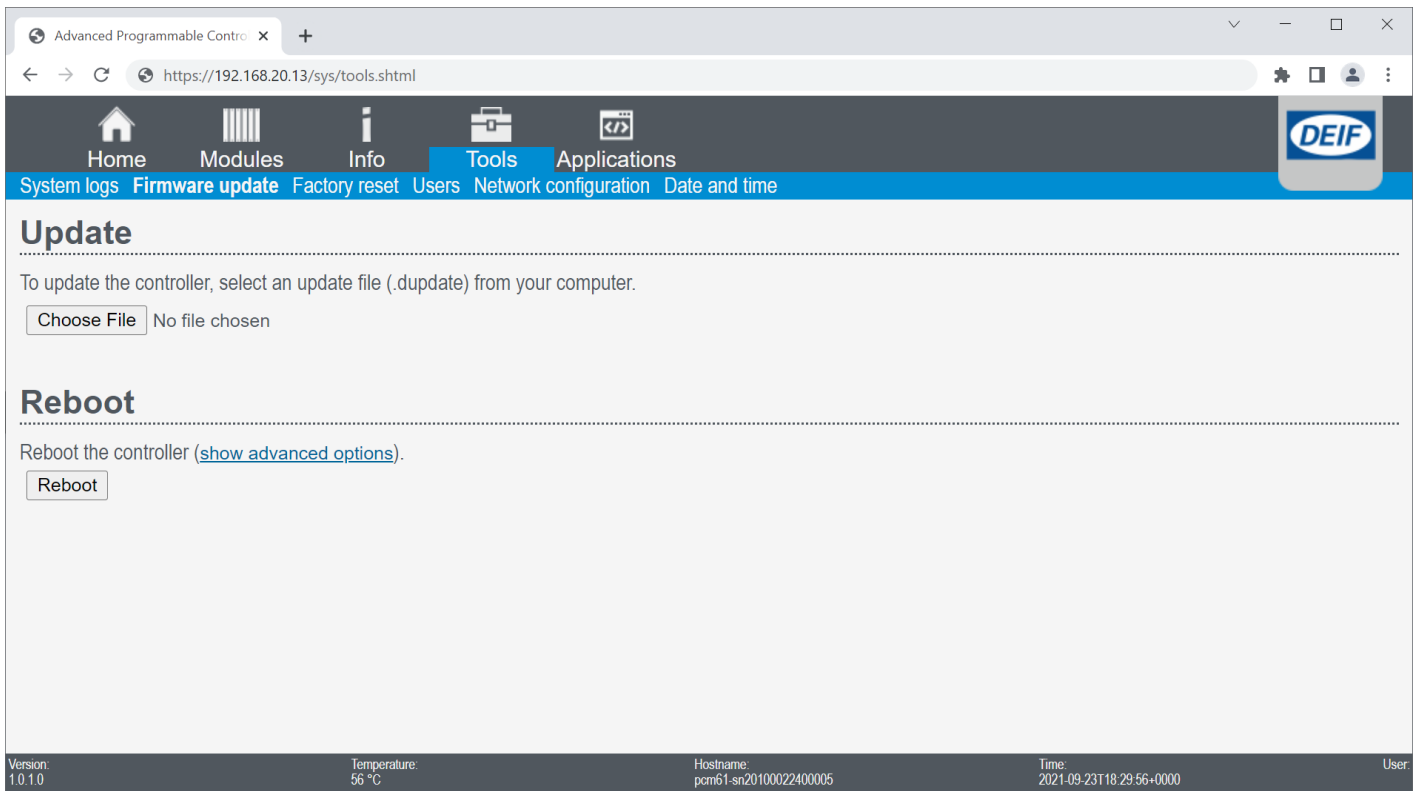


It might ask for the username and password to continue.

Next, click Upload button, it will start uploading the firmware. When the loading process is complete, a line of green text will be printed out on the webpage to indicate the upload is successful.



The firmware update only takes effect when you reboot the system. Click Reboot button, a pop-up window is displayed asking you to confirm the reboot. Click OK to start the reboot process.



Wait for the reboot process to be finished. Then reload the webpage, the updated version number can be found on the lower left corner of the page. Want more details about the updating process, check out the system logs on the webpage (Refer to "View logs" section).

6.1 View logs

Logs are presented in System logs section on the webpage:

Tools > System logs

Advanced Programmable Contro

+

← → ↺

https://192.168.20.13/sys/logging.shtml

⚙️ 🏠 👤 ⋮

🏠 Home

📁 Modules

📄 Info

🔧 Tools

📁 Applications

System logs

Firmware update

Factory reset

Users

Network configuration

Date and time

DEIF

System logs

1 out of 31 logs selected ([select all](#) | [remove all](#))

update

Select logs to display

Last hour

📅

```

2021-09-23T18:26:43.847435+0000 update: u-boot.bin: OK
2021-09-23T18:26:43.847438+0000 update: uqe_iram.bin: OK
2021-09-23T18:26:43.847440+0000 update: version.txt: OK
2021-09-23T18:26:43.848684+0000 update: All checksums OK
2021-09-23T18:26:43.875701+0000 update: Erasing /dev/mtd1
2021-09-23T18:27:08.708726+0000 update: Writing /dev/mtd1
2021-09-23T18:27:08.723279+0000 update: 1+1 records in
2021-09-23T18:27:08.723325+0000 update: 1+1 records out
2021-09-23T18:27:08.762592+0000 update: Writing /dev/mtd1
2021-09-23T18:27:09.869997+0000 update: 10+2 records in
2021-09-23T18:27:09.870042+0000 update: 10+2 records out
2021-09-23T18:27:09.913234+0000 update: Writing /dev/mtd1
2021-09-23T18:27:09.922381+0000 update: 0+1 records in
2021-09-23T18:27:09.922422+0000 update: 0+1 records out
2021-09-23T18:27:09.959949+0000 update: Writing target file '/boot/os.a/kernel.itb'
2021-09-23T18:27:10.851193+0000 update: Writing target file '/boot/os.a/rootfs.sfs'
2021-09-23T18:27:15.378610+0000 update: Writing target file '/boot/os.a/uqe_iram.bin'
2021-09-23T18:27:15.469082+0000 update: Writing target file '/boot/os.a/version.txt'
2021-09-23T18:27:15.545803+0000 update: OK
2021-09-23T18:27:15.662579+0000 update: + tar -x -C "/tmp/dupdata-LikJcn" -f "dupdata.KjrZet"
2021-09-23T18:27:15.662624+0000 update: + ./run_update.sh"
2021-09-23T18:27:15.662627+0000 update: + rm -rf "/tmp/dupdata-LikJcn"
2021-09-23T18:27:15.662630+0000 update: SUCCESS: dupdata.KjrZet

```

Auto refresh ☐

[download](#)

Feedback log

The feedback log is a compressed file that contains additional debug information.

Download feedback file

Version: 1.0.1.0

Temperature: 56 °C

Hostname: pcm61-sn20100022400005

Time: 2021-09-23T18:37:54+0000

User:

Here, you can select different kinds of logs to display on the page. Click "inverted triangle" icon to get more logs. You can also select all logs or remove all.

Advanced Programmable Control x +

https://192.168.20.13/sys/logging.shtml

Home Modules Info Tools Applications

System logs Firmware update Factory reset Users Network configuration Date and time

System logs

1 out of 31 logs selected ([select all](#) | [remove all](#))

update x Select logs to display

syslog

vstftpd

watchdog

app/codesys

```

2021-09-23T18:27:08.723279+0000 dupdate: 1+1 records in
2021-09-23T18:27:08.723325+0000 dupdate: 1+1 records out
2021-09-23T18:27:08.762592+0000 dupdate: Writing /dev/mtd1
2021-09-23T18:27:09.869997+0000 dupdate: 10+2 records in
2021-09-23T18:27:09.870042+0000 dupdate: 10+2 records out
2021-09-23T18:27:09.913234+0000 dupdate: Writing /dev/mtd1
2021-09-23T18:27:09.922381+0000 dupdate: 0+1 records in
2021-09-23T18:27:09.922422+0000 dupdate: 0+1 records out
2021-09-23T18:27:09.959949+0000 dupdate: Writing target file '/boot/os.a/kernel.itb'
2021-09-23T18:27:10.851193+0000 dupdate: Writing target file '/boot/os.a/rootfs.sfs'
2021-09-23T18:27:15.378610+0000 dupdate: Writing target file '/boot/os.a/uqe_iram.bin'
2021-09-23T18:27:15.469082+0000 dupdate: Writing target file '/boot/os.a/version.txt'
2021-09-23T18:27:15.545803+0000 dupdate: OK
2021-09-23T18:27:15.662579+0000 dupdate: + tar -x -C "/tmp/dupdate-LikJcn" -f "dupdate.KjrZet"
2021-09-23T18:27:15.662624+0000 dupdate: + "./run_update.sh"
2021-09-23T18:27:15.662627+0000 dupdate: + rm -rf "/tmp/dupdate-LikJcn"
2021-09-23T18:27:15.662630+0000 dupdate: SUCCESS: dupdate.KjrZet

```

Auto refresh ☐

[download](#)

Feedback log

The feedback log is a compressed file that contains additional debug information.

[Download feedback file](#)

Version: 1.0.1.0 Temperature: 56 °C Hostname: pcm61-sn20100022400005 Time: 2021-09-23T18:38:39+0000 User:

To get additional debug information, the feedback log is available to download.

Select **Download feedback file** to get the compressed feedback log file. Unzip the file to access the individual files.

pcbm61-sn20100022400005_20220923T203733-feedbacklog.tar.gz (evaluation copy)

File Commands Tools Favorites Options Help

Add Extract To Test View Delete Find Wizard Info VirusScan

pcbm61-sn20100022400005_20220923T203733-feedbacklog.tar.gz\feedback_20210923T183207Z - TAR+GZIP archive, unpacked size 60.303.724 bytes

Name	Size	Packed	Type	Modified	CRC32
..			File folder		
sysconf	4.320	?	File folder	23-09-2021 ...	
proc	19.793.603	?	File folder	23-09-2021 ...	
nvrnm	33.548	?	File folder	23-09-2021 ...	
eeeprom	4.165	?	File folder	23-09-2021 ...	
codesys	195.045	?	File folder	23-09-2021 ...	
rootfs-overlay.tar.gz	16.933	?	WinRAR archive	23-09-2021 ...	
devicetree.tar.gz	22.963	?	WinRAR archive	23-09-2021 ...	
top_memory.txt	14.754	?	Text Document	23-09-2021 ...	
top_cpu.txt	14.751	?	Text Document	23-09-2021 ...	
tlog-pcb.txt	1.405	?	Text Document	23-09-2021 ...	
tlog-pcb.dump	225	?	DUMP File	23-09-2021 ...	
tlog-cpu.txt	2.701	?	Text Document	23-09-2021 ...	
tlog-cpu.dump	366	?	DUMP File	23-09-2021 ...	
service-status.txt	1.189	?	Text Document	23-09-2021 ...	
root-ash-history	1.142	?	File	23-09-2021 ...	
ps.txt	10.454	?	Text Document	23-09-2021 ...	
mmcbk0.extcsd	10.470	?	EXTCSD File	23-09-2021 ...	
lsusb	4.837	?	File	23-09-2021 ...	
log.txt	40.148.570	?	Text Document	23-09-2021 ...	
ip-addr.txt	1.368	?	Text Document	23-09-2021 ...	
ifconfig.txt	3.261	?	Text Document	23-09-2021 ...	
ethercat-probe.json	15.019	?	JSON File	23-09-2021 ...	
ethercat-modules.txt	1.170	?	Text Document	23-09-2021 ...	
edac.txt	186	?	Text Document	23-09-2021 ...	
diskfree	745	?	File	23-09-2021 ...	
deif-version	8	?	File	23-09-2021 ...	
dboot-version.txt	49	?	Text Document	23-09-2021 ...	
dboot-status.txt	98	?	Text Document	23-09-2021 ...	
dboot-mode.txt	4	?	Text Document	23-09-2021 ...	
date.txt	46	?	Text Document	23-09-2021 ...	
brctl.txt	78	?	Text Document	23-09-2021 ...	
boardctrl.txt	251	?	Text Document	23-09-2021 ...	

Total 5 folders, 27 files, 60.303.724 bytes

6.2 Create factory reset

NOTICE



Factory reset of settings

Factory reset restores the AMC 600 to its factory settings. Please make sure to back up important information prior to performing the reset.

A factory reset can be performed in three ways:

1. Use **Tools > Factory reset**.

- Select **Perform Factory Reset**, a pop-up window is displayed, select **OK** to start factory reset process.



-
- 2. Use the reset pinhole located on the front of the PCM6-1 module (above the "USB host" connector).
 - Use a paper-clip to push the reset button until the "Status" LED stops blinking red.
- 3. Use the SSH command:

```
~ # factory-reset
```