

Руководство пользователя

The logo for gtlab, featuring the text "gtlab" in a white, lowercase, sans-serif font on a blue rectangular background.

ADCCTL

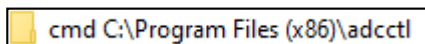
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1 Запуск программы

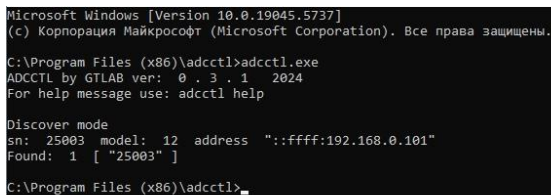
1.1 Установить утилиту adcctl.

1.2 В директории с установленной утилитой запустить консоль добавив к пути cmd в адресной строке.



cmd C:\Program Files (x86)\adcctl

1.3 Проверить подключение устройства к ПК введя команду adcctl.exe



```
Microsoft Windows [Version 10.0.19045.5737]
(c) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.

C:\Program Files (x86)\adcctl>adcctl.exe
ADCCTL by GTLAB ver: 0.3.1 2024
For help message use: adcctl help

Discover mode
sn: 25003 model: 12 address "::ffff:192.168.0.101"
Found: 1 [ "25003" ]

C:\Program Files (x86)\adcctl>_
```

1.4 Чтобы вызвать меню всех доступных команд – прописать в консоли adcctl help.

```
Microsoft Windows [Version 10.0.19045.6093]
(c) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.

C:\Program Files (x86)\adcctl>adcctl help
ADCCTL by GTLAB ver: 0.3.3 2025
For help message use: adcctl help

Usage: adcctl [SN] [COMMAND] [OPTIONS]

Call ADCCTL without any options emits DISCOVER mode.

SN - serial number of device

COMMANDS:
  setStaticIP      OPTIONS contains new IP-address
  setStaticGate    OPTIONS contains new IP-address
  setStaticMask    OPTIONS contains new network mask
  setDefaultIP     OPTIONS contains new IP-address
  setDefaultGate   OPTIONS contains new IP-address
  setDefaultMask   OPTIONS contains new network mask
  setNetworkMode   OPTIONS contains "dhcp" or "static"
  connect          ONLINE mode for DEBUG purposes
  save             saving network configuration and automatically reboot ADC
  reboot           reboot ADC
  show             request ADC configuration
  flash            OPTIONS contains PATH to FIRMWARE_FILE

  syncTime         sync device time with this machine

  setfw            SN contains VERSION and OPTIONS contains PATH to FIRMWARE_FILE

EXAMPLE: To setup new static network configuration use this steps:
adcctl 23001 setStaticIP 192.168.0.103
adcctl 23001 setStaticGate 192.168.0.1
adcctl 23001 setStaticMask 255.255.255.0
adcctl 23001 setNetworkMode static
adcctl 23001 save
```

2 Установка статического IP-адреса

2.1 Чтобы установить статический IP устройства - в консоли прописать по-очередно команды:

- adcctl (заводской номер устройства) setStaticIP 192.168.0.101

```
C:\Program Files (x86)\adcctl>adcctl 25003 setStaticIP 192.168.0.101
ADCCTL by GTLAB ver: 0.3.3 2024
For help message use: adcctl help

Config mode
setStaticIP: "25003" : "192.168.0.101"
adc created: 25003
ADC class start 25003
Found ADC: 25003 on IP: "192.168.0.101"
"09:53:16" single adc connected
ADC 25003 Register read error: 102
ADC 25003 Register read error: 210
Model id: 12
Device sn: 25003
Firmware version: 0
DHCP mode: false
MAC address: "16-d8-22-33-ab-61"
Default address: "192.168.0.101"
Default gate: "192.168.0.1"
Default mask: "255.255.255.0"
Static address: "192.168.0.103"
Static gate: "192.168.0.1"
Static mask: "255.255.255.0"
Channels count: 2
Samples count: 333
Bit depth: 16
Channel 0 Factor: 0.906363
Channel 0 Offset: -0.00033
Channel 1 Factor: 0.995732
Channel 1 Offset: 0.00064
Is tach signal: false
Is gen: true
ADC freq: 144092
ADC 25003 Register written: 202
ADC 25003 Register written: 203
ADC 25003 Register written: 5
channels state changed: 0 -> 4
channels state changed: 1 -> 4
"09:53:16" propusk: 25003 0 : 1 packets lost = 1 nan
Finished
```

- **adcctl (заводской номер устройства) setStaticMask 255.255.255.0**

```
C:\Program Files (x86)\adcctl>adcctl 25003 setStaticMask 255.255.255.0
ADCCTL by GTLAB ver: 0.3.1 2024
For help message use: adcctl help

Config mode
setStaticMask: "25003" : "255.255.255.0"
adc created: 25003
ADC class start 25003
Found ADC: 25003 on IP: "::ffff:192.168.0.101"
"09:46:43" single adc connected
ADC 25003 Register read error: 102
ADC 25003 Register read error: 210
Model id: 12
Device sn: 25003
Firmware version: 0
DHCP mode: false
MAC address: "16-d8-22-33-ab-61"
Default address: "192.168.0.101"
Default gate: "192.168.0.1"
Default mask: "255.255.255.0"
Static address: "192.168.0.103"
Static gate: "192.168.0.1"
Static mask: "255.255.255.0"
Channels count: 2
Samples count: 333
Bit depth: 16
Channel 0 Factor: 0.996363
Channel 0 Offset: -0.00033
Channel 1 Factor: 0.995732
Channel 1 Offset: 0.00064
Is tach signal: false
Is gen: true
ADC freq: 144092
ADC 25003 Register written: 202
ADC 25003 Register written: 203
ADC 25003 Register written: 7
channels state changed: 0 -> 4
channels state changed: 1 -> 4
Finished
```

- **adcctl (заводской номер устройства) setNetworkMode static**


```
C:\Program Files (x86)\adcctl>adcctl 25003 setNetworkMode static 255.0
ADCCTL by GTLAB ver: 0.3.1 2024
For help message use: adcctl help

Config mode
setNetworkMode: "25003" : "static"
adc created: 25003
ADC class start 25003
Found ADC: 25003 on IP: "::ffff:192.168.0.101"
"09:49:16" single adc connected
ADC 25003 Register read error: 102
ADC 25003 Register read error: 210
Model id: 12
Device sn: 25003
Firmware version: 0
DHCP mode: false
MAC address: "16-d8-22-33-ab-61"
Default address: "192.168.0.101"
Default gate: "192.168.0.1"
Default mask: "255.255.255.0"
Static address: "192.168.0.103"
Static gate: "192.168.0.1"
Static mask: "255.255.255.0"
Channels count: 2
Samples count: 333
Bit depth: 16
Channel 0 Factor: 0.996363
Channel 0 Offset: -0.00033
Channel 1 Factor: 0.995732
Channel 1 Offset: 0.00064
Is tach signal: false
Is gen: true
ADC freq: 144092
ADC 25003 Register written: 202
ADC 25003 Register written: 203
ADC 25003 Register written: 0
channels state changed: 0 -> 4
channels state changed: 1 -> 4
Finished
```

- adcctl (заводской номер устройства) save

```
C:\Program Files (x86)\adcctl>adcctl 25003 save
ADCCTL by GTLAB ver: 0 . 3 . 1 2024
For help message use: adcctl help

Save adc config: "25003"
adc created: 25003
ADC class start 25003
Found ADC: 25003 on IP: "::ffff:192.168.0.101"
"09:50:07" single adc connected
ADC 25003 Register read error: 102
ADC 25003 Register read error: 210
Model id: 12
Device sn: 25003
Firmware version: 0
DHCP mode: false
MAC address: "16-d8-22-33-ab-61"
Default address: "192.168.0.101"
Default gate: "192.168.0.1"
Default mask: "255.255.255.0"
Static address: "192.168.0.103"
Static gate: "192.168.0.1"
Static mask: "255.255.255.0"
Channels count: 2
Samples count: 333
Bit depth: 16
Channel 0 Factor: 0.996363
Channel 0 Offset: -0.00033
Channel 1 Factor: 0.995732
Channel 1 Offset: 0.00064
Is tacho signal: false
Is gen: true
ADC freq: 144092
ADC 25003 Register written: 202
ADC 25003 Register written: 203
ADC 25003 Register written: 201
"09:50:08" ping timeout
Finished
```

 Перед началом работы необходимо разрешить все входящие UDP пакеты на порт 7000 в настройках брандмауэра Windows. Также в случае, если на компьютер установлена виртуальная машина, отключить виртуальный сетевой адаптер.

Решаем задачи и реализуем идеи
безопасного будущего промышленности



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