FACTORI 4.0
Erasmus +

UGA
Université
Grenoble Alpes

GICS card extra information in Phnom Penh-ITC

http://www.gipsa-lab.grenoble-inp.fr/~jean-marc.thiriet/asean/asean.html

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Asean-Factori 4.0 project

Phnom Penh, 15-26 August 2022

http://www.gipsa-lab.grenoble-inp.fr/~jean-marc
.thiriet/asean/asean.html

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Asean-Factori 4.0 *UGA Grenoble – August 2022*

GICS simulation card
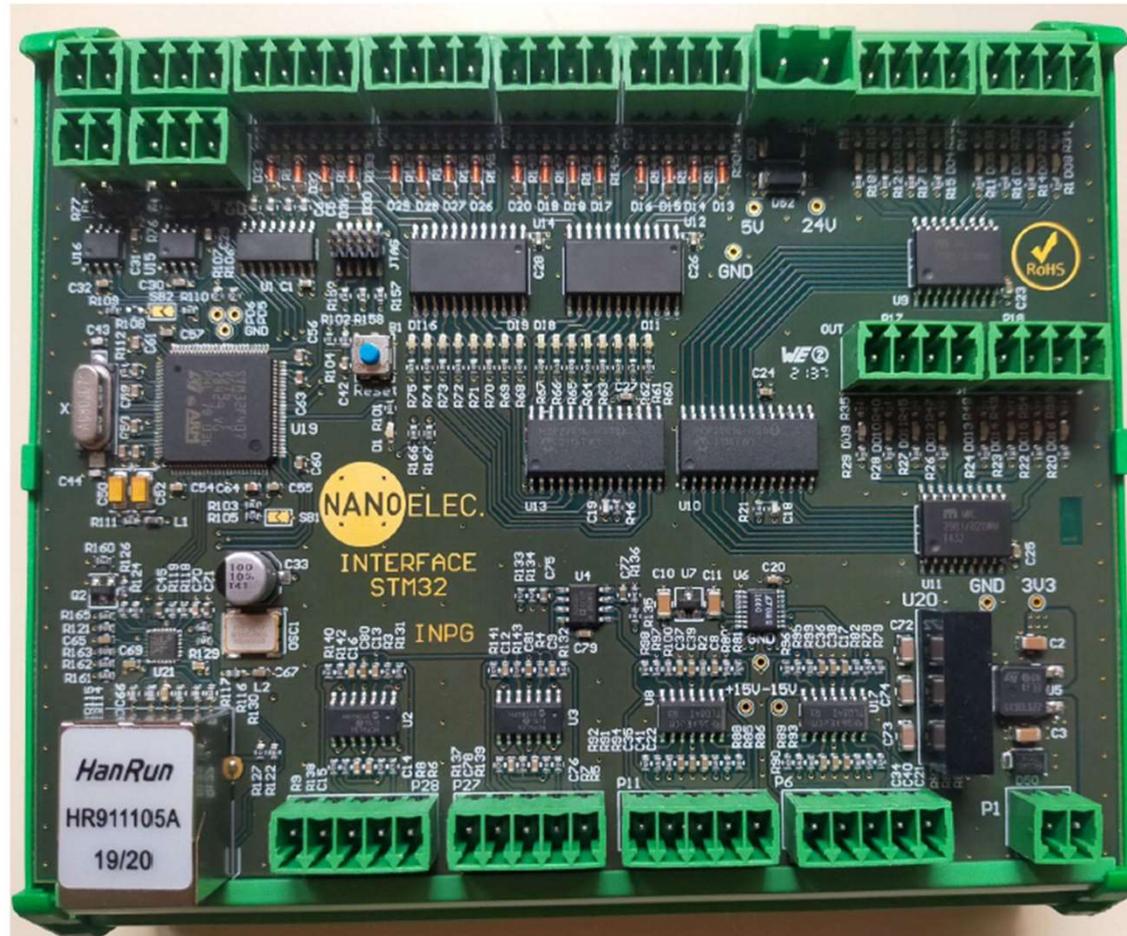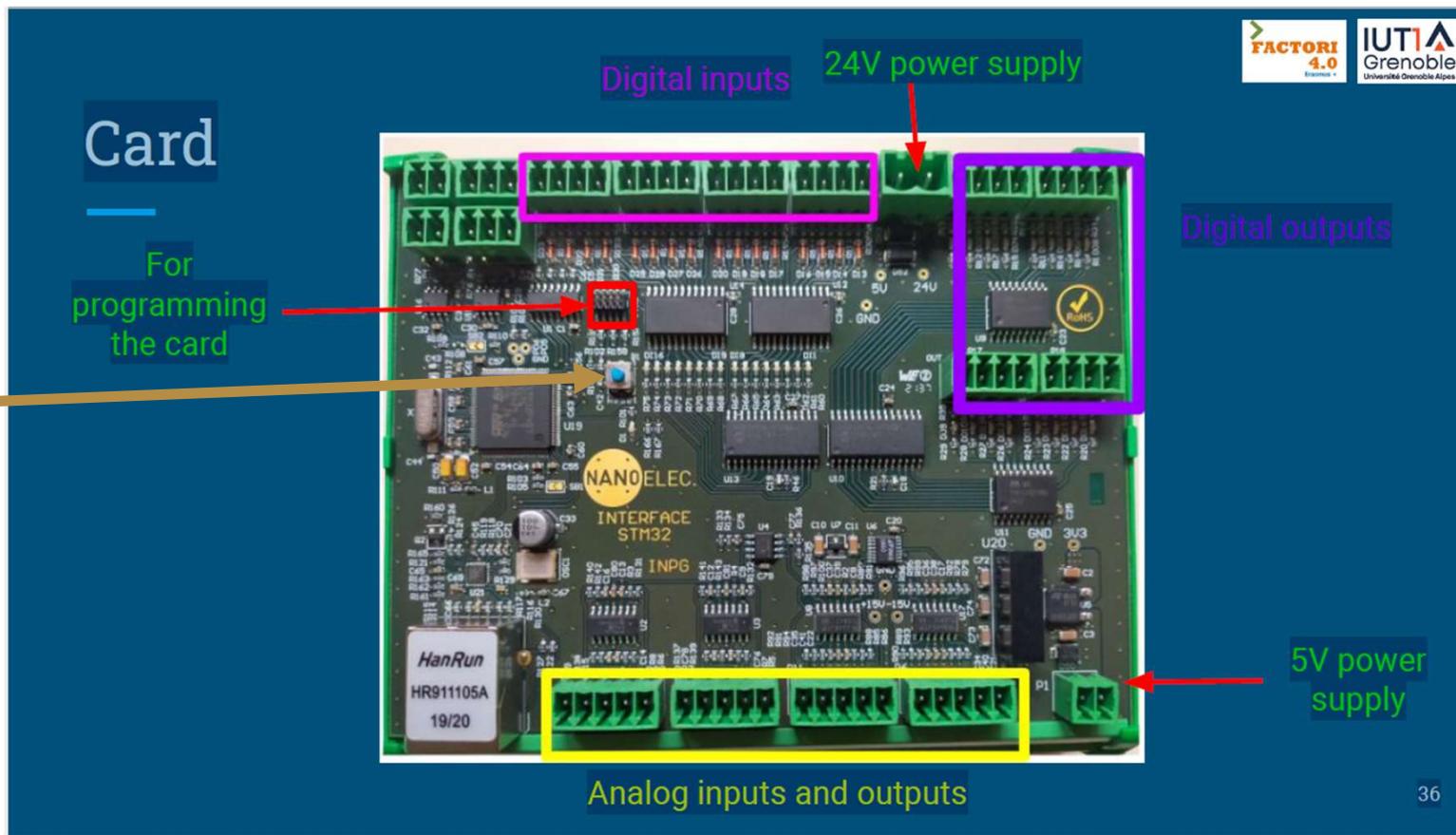
GICS simulation card

VERY IMPORTANT:

Normally the GICS card should answer to ping **192.168.0.50**. It has been configured for that.

If it is not the case, push on the **RESET button** and it will work well.

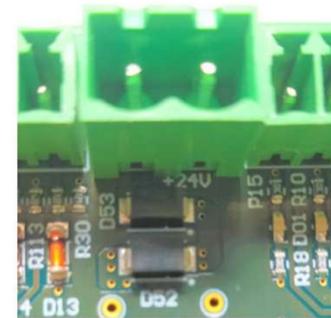Please note that there are two powers on the card:
- 5V
- 24V

Card

Digital inputs

24V power supply

Digital outputs

For programming the card

5V power supply

Analog inputs and outputs

GICS simulation card

VERY IMPORTANT:

There is a mistake in the 24V
power on the card.
If you want to change the plug,
take that into account...

This is where the +24V are connected, and as you can see on the board it is written
"+24V" at the right. As Stéphane Mocanu told us, we have to invert it because it is an
error. So to connect it to the "ground", the wire should be placed on the right-hand
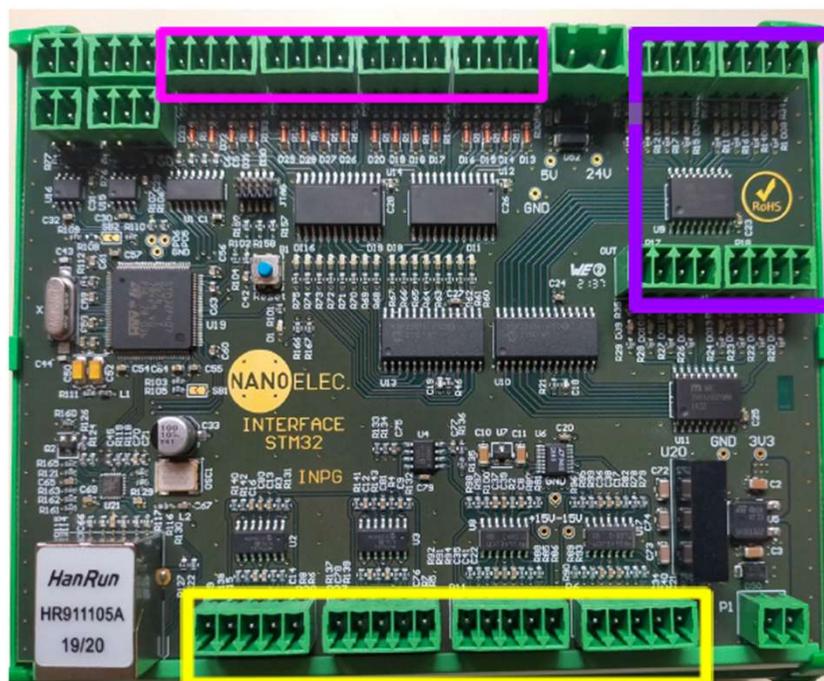side (where "+24V" is written)
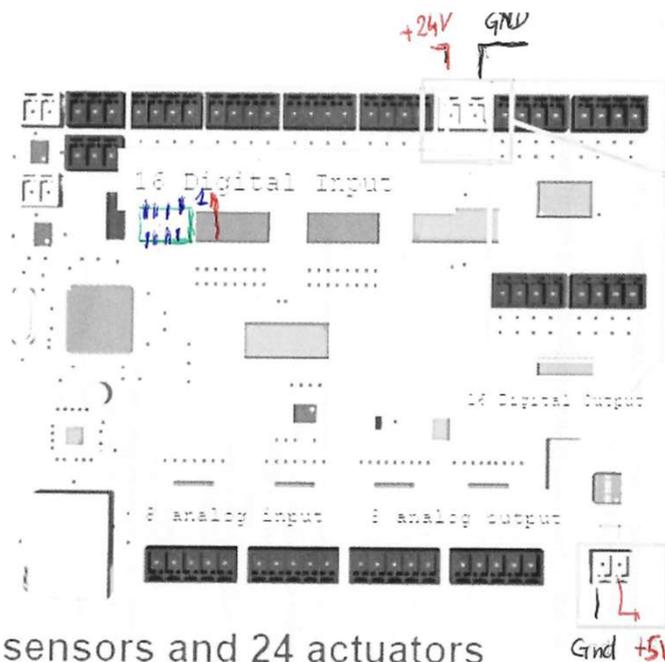
24V | Gnd real direction (obligation to reverse the wiring)

GICS simulation card

Description of the Inputs-Outputs

Here we can see highlighted in pink the digital inputs of the card (number one being the rightmost input and going left until number 16 on the far left)

In the purple rectangle we have the digital outputs of the card (number one is on the left of the top row, with number 8 on the right, number 9 on the left of the bottom row and number 16 at the end)

In the yellow rectangle we have the 8 analog inputs and the 8 analog outputs

# GICS simulation card: Programmation tools

All the needed tools, sources, documentations about the GICS card are provided on the \Complete-Doc-ITC\GICS-Cards\Programmation-tools-docs-srcs

On the « ITC » directory you have the specific source file « lwip.c » with the IP address chosen on the Schneider platform: 192.168.0.50

GICS simulation card & IO modules

INPUTS-OUTPUTS MODULES

On an Input-Output module (like DDO1602), if we « open » it, we see two « power » cables (red and black ones) and 16 colored cables (blue and purple thin cables) for the 16 outputs.
These 16 cables are connected to the 16 inputs ports of the GICS card, we find the same 16 blue and purple thin cables. Of course **Outputs** of the PLC are physically connected to the **Inputs** of the GICS card.
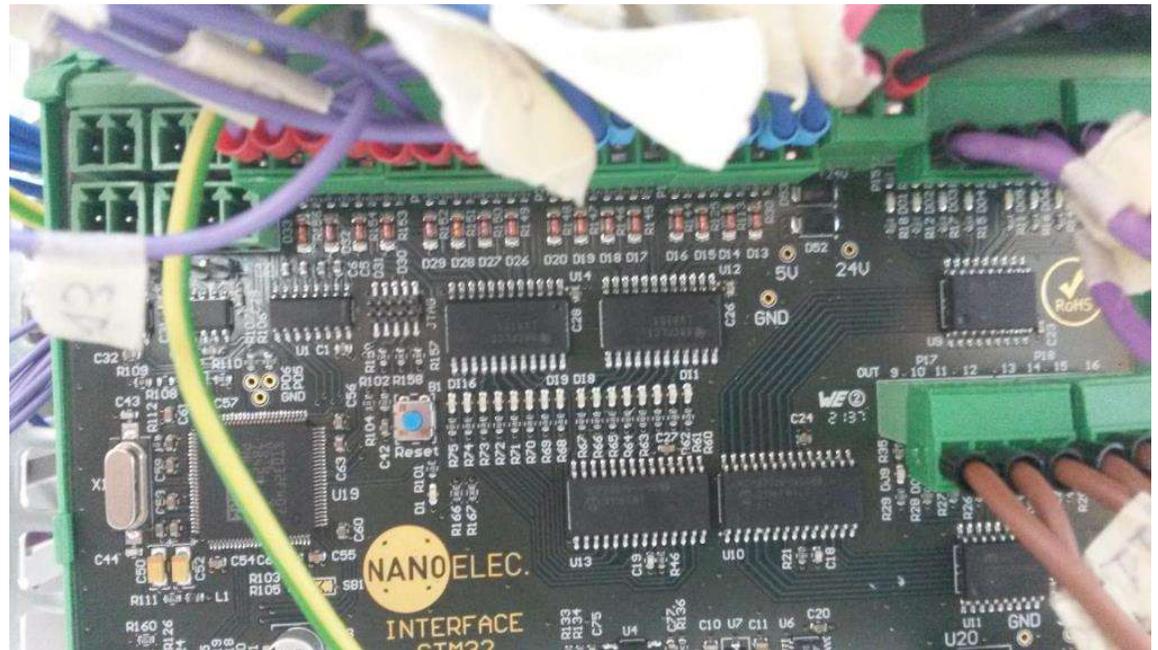
GICS simulation card & IO modules

INPUTS-OUTPUTS MODULES

This is the same for DDI.
There are two DDIs on the platform.

The first one (on the left) is connected on the GICS card. There is the power and 16 brown and purple « thicker » cables.
These 16 cables are connected to the 16 output ports of the GICS cards, we find the same 16 brown and purple « thicker » cables. Of course **Inputs** of the PLC are physically connected to the **Outputs** of the GICS card.

The second (right) DDI slot is not connected Yet.
It is for further extensions of the platform.
The 16 orange « thicker » cables are ready to be plugged…
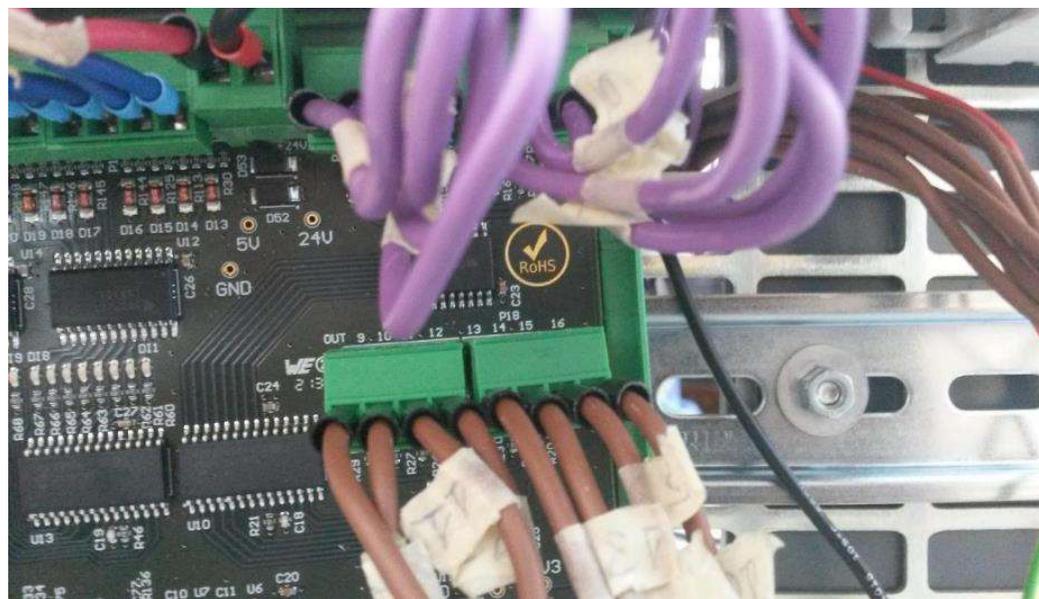
GICS Tester

- I01 to I15 corresponds to Digital inputs (to be activated remotely)

- Q01 to Q15 corresponds to digital outputs (will be activated by the programme running on the PLC)

- A... corresponds to the Analog Inputs and Outputs

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យកចិត្តទុកដាក់របស់អ្ន
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Merci pour votre attention

Thank you for your attention