

CASH-Interface2 Nayax Connection

User manual

Board: CASH-Interface2 v1.21

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1. INTRODUCTION

With the [CASH-Interface2](#) and [CASH-Interface MC8](#) board it is possible to connect and use the Nayax cashless payment system ONYX or VPOS TOUCH, and add several forms of payment beside the classic cash payments methods like coins and banknotes. Of course it is possible to use all payment methods together, coins, banknotes and cashless.

2. NAYAX DEVICE SETUP

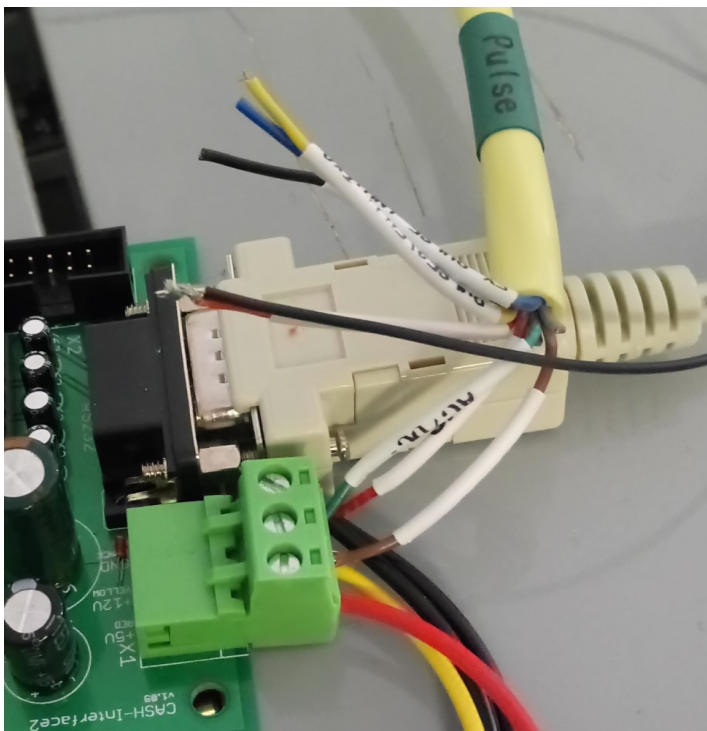
The Nayax device must operate with PULSE interface. All Nayax device setup is done in the Nayax web interface. If you buy the Nayax device from us, we will set up the Nayax for your needs (Plug & Play!).

PULSE interface means Nayax sends out ACTIVE LOW impulse(s) to signal credits. For example set up Nayax to send 1 pulse for each Euro credit. So for 5 Euro there are 5 pulses on the Nayax PULSE output line.

3. CASH-Interface2 Connection

The Nayax pulse connection to the CASH-Interface2 are just some wires, power (plus and minus) and the pulse signal itself (ACTIVE LOW). Optional there is a INHIBIT line to enable or disable the device. There are different Nayax devices with different PULSE cables, be sure to use the table that fits for your device!

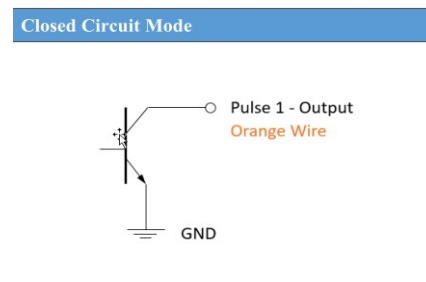
3.1 NAYAX AMIT 3 Connection



"AC/DC IN +" (Brown)	=> CI2 +12V DC
"AC/DC IN -" (Green)	=> CI2 GND
"PULSE1 RXD" (Orange)	=> CI2 #6 pin (#1 - #6) (ACTIVE LOW)
"VCC" (Black)	=> CI2 +12V
"GND" (Red)	=> CI2 GND
"EX Pulse" (Purple)	=> CI2 INHIBIT, coin plug pin 6 or bill plug pin 9-12

In this example the system works without connecting VCC (Black) cable, just Brown, Green and the Orange cable.

"There is no need of VCC (VCC is the PLUS pole of a circuit's power supply) in case of the Closed-Circuit mode"



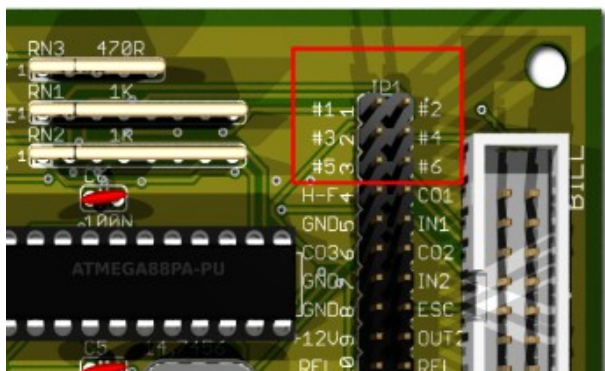
3.2 NAYAX ONYX or VPOS TOUCH Connection

"AC/DC IN +" (Red) => CASH-Interface2 +12V DC
"AC/DC IN -" (Black) => CASH-Interface2 GND
"PULSE1" (Green) => CASH-Interface2 #6 pin (#1 - #6 possible, ACTIVE LOW)
"EX Pulse" (Purple) => CASH-Interface2 INHIBIT,
 coin plug pin 6, or bill plug pin 9-12

3.3 CASH-Interface2 PULSE INPUT Connection

One possible Nayax setup is to set the costs is one pulse, then connect the Nayax pulse line to e.g. #6 of the CASH-Interface 2 and set the value for that #6 in the CI2 software (see CI2 manual how to change # values).

Or set the Nayax pulse to 1 pulse every Euro, and connect the Nayax pulse line to the 1 EUR coin line (normally 1 Euro coin is #4 if you start the coins with the 10 Cent coin, depends on your CI2 setup).



The #1 - #6 pins are located on the CASH-Interface2, JP1 pin header.

Simply use one of the 2 pin cables that was included with the CASH-Interface2.

For an more easy connection of Nayax devices especially we developed a PULSE-Adapter, see chapter 4 below.

3.4 INHIBIT

The INHIBIT is controlled via the CASH-Interface2, and working if the TOTALBLOCKING in the software is off (yellow LED on the board on). Or you connect the "EX Pulse" (Purple) cable directly to GND, then it always accepts credit card.

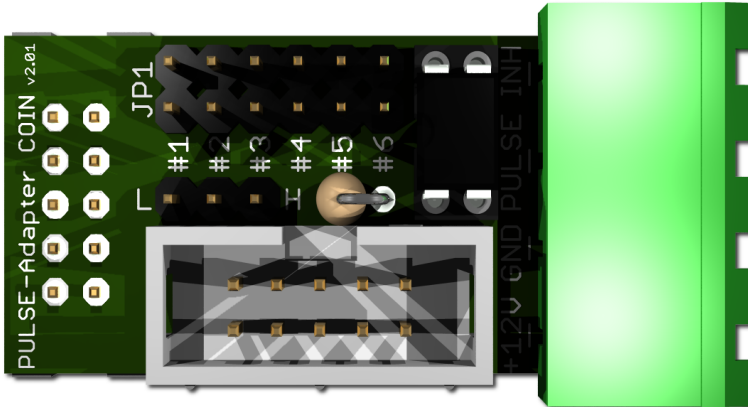
If you get the "Cash only" message on Nayax devices, you need to connect also the INHIBIT (4) line, the "EX Pulse" (Purple) cable!

Be sure to set up the INHIBIT attribute for the Nayax device through the Nayax web-interface, too!

4. PULSE ADAPTER

Another possibility to connect the Nayax PULSE wire is to use our PULSE-Adapter. There are two types of the PULSE-Adapter available, a COIN and a BILL version.

4.1 PULSE-Adapter COIN



The [PULSE-Adapter COIN](#) has a 10 pin connector that fits to default coin plugs, and offers again a 10 pin coin plug to plug in the originally coin acceptor cable, so you do not lose the coin acceptor connector.

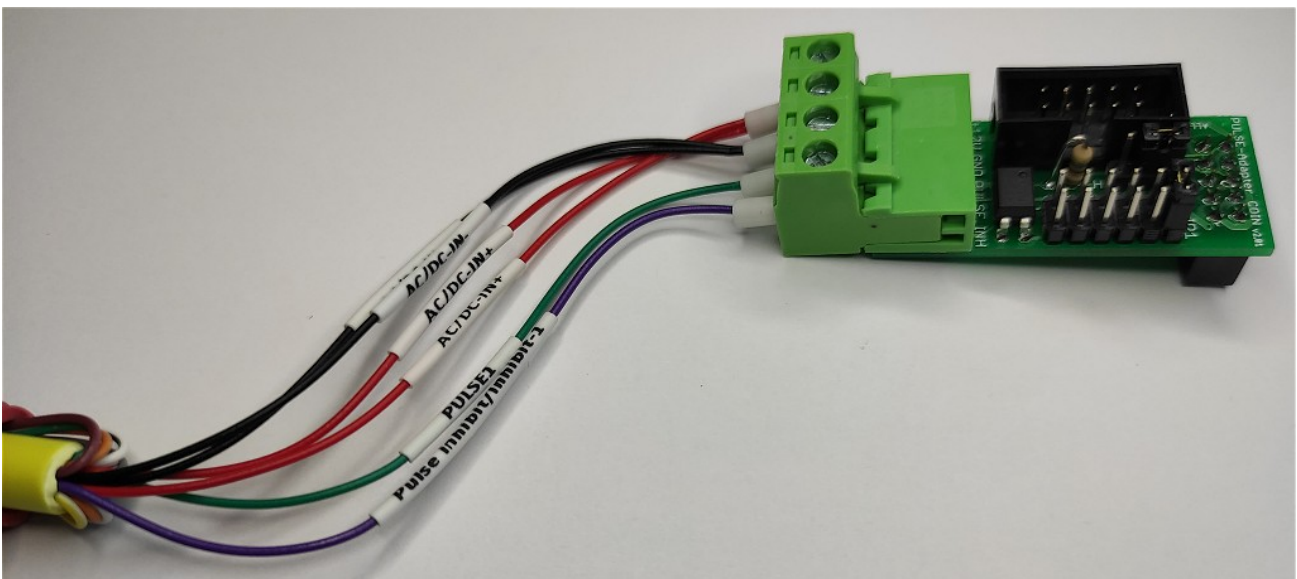
The Nayax device can be connected easily via plugable terminal connector. With a jumper you can select the coin channel on which the

external credit signal is transferred. Additionally there is an INHIBIT out, to control the acceptance of the Nayax device. Occupation of the 4 pole plug:

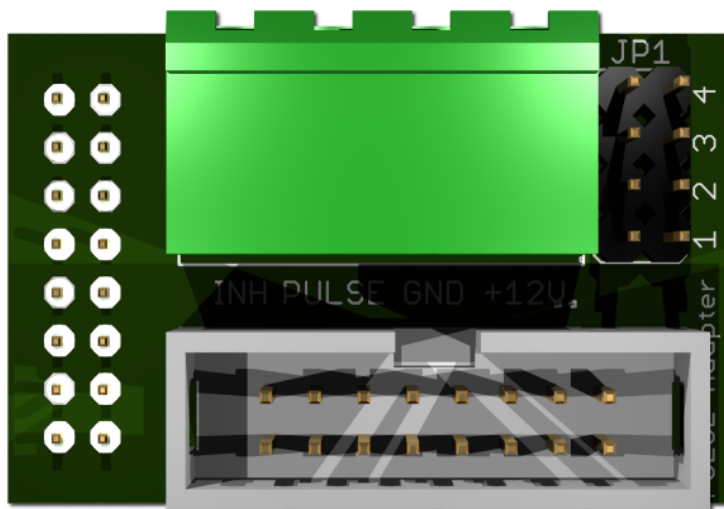
Usage:	NAYAX AMIT3	NAYAX VPOS TOUCH	NAYAX ONYX
1 = +12V DC	"AC/DC+" (brown) "VCC" (Black)	"AC/DC IN +" (Red) "VCC" (Light Blue)	"AC/DC-IN +" (Red)
2 = GND	"AC/DC-" (green) "GND" (Red)	"AC/DC IN -" (Black) "GND" (Brown & Grey)	"AC/DC IN -" (Black)
3 = PULSE	"PULSE1" (orange)	"PULSE1" (Green)	"PULSE1" (Green)
4 = INHIBIT	"EX Pulse" (purple)	"EX Pulse" (Purple)	"Inhibit-1" (Purple)

Hint: VCC is optional and normally not needed when using the "Closed-Circuit mode"

Example for PULSE-Adapter [COIN] used with Nayax ONYX



4.2 PULSE-Adapter BILL



The PULSE-Adapter BILL has a 16 pin connector that fits to default NV9/NV10 plugs, and offers again a 16 pin plug to plug in the originally bill acceptor cable, so you do not lose the bill acceptor connector.

The PULSE-Adapter BILL offers the same options as the above PULSE-Adapter COIN, select the bill channel by jumper and a INHIBIT output.

5. OTHER

- Pulse length should be set to 100ms (100ms is default with coin and bill validator). The CASH-Interface 2 can also handle pulses lower than 100ms. If you send more pulses simply set the pulse length to 50ms to reduce transmission time.
- A pulse must be LOW (ACTIVE LOW is default with coin and bill validator).
- Pulse number depends on your settings, see 3.3 example above.

We offer the Nayax ONYX and VPOS TOUCH in our webshop at:
<https://www.casino-software.de/shop/en/Hardware/Cashless-Systems>

6. CONTACT

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