

## ICP2-COMBO-8: Address Assignment to Programmer

### Contents

1	Background.....	1
2	<b>Important</b> .....	1
3	Address Assignment for Channels 9-16 (One-Time Procedure).....	1
3.1	Step 1: Run ICP for Window .....	1
3.2	Step 2: Assign new box number for channels 5-8 .....	2
3.3	Step 3: Assign new box number for channels 1-4 .....	3
3.4	Step 4: Remove all jumpers JP1 .....	3
4	Address Assignment for Channels 17-24, 25-32, etc.....	3
5	Chain Connection .....	3
6	Appendix A: Operations in Chain for ICP2-COMBO(G3) .....	5
7	Appendix B: Operations in Chain for ICP2-COMBO .....	5
8	Revision History .....	5

## 1 Background

- ICP2-COMBO-8/ICP2-COMBO(G3)-8 (“programmer unit”) logically consists of 2 “boxes”, i.e. 1 box = 4 channels
- Only one box at the same time can be “learned/assigned” by “Programmer → Assign Address to GANG/COMBO Box”
- Jumper JP1 is used to disable “box” which doesn’t “participate” in the assignment procedure
- USB interface **only** must be used for the learn procedure

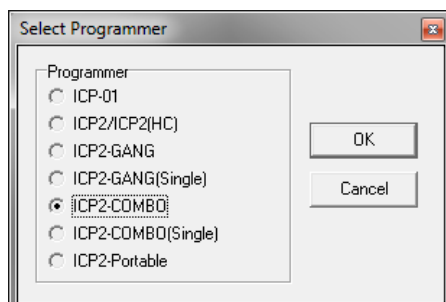
## 2 Important

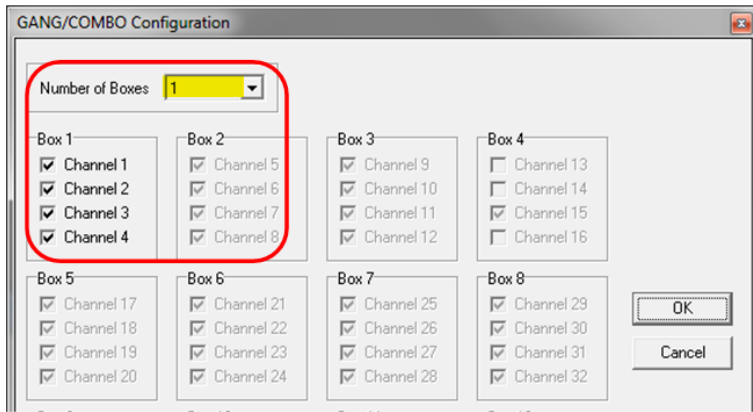
- “RS-232 Default Baud Rate” in chained programmers (channels 9...) should be set according to primary interface connection:
  - USB: 115KBaud (default, recommended) or 460KBaud
  - RS-232: 115KBaud (default)
  - **LAN:** **460**KBaud, ICP2-COMBO(**G3**) only
- Minimum firmware for LAN chained connection: 33.7 (Jul-2020)
- **All** programmer channels in the chain must have the same DLL/Command Line Support (-D): “YES” for all or “NO” for all
- Apply power OFF/ON cycle for **all** programmer units after the primary interface is changed
- Firmware upgrade for entire chain (if required) should **not** be done via LAN interface
- Good ventilation should be provided

## 3 Address Assignment for Channels 9-16 (One-Time Procedure)

### 3.1 Step 1: Run ICP for Window

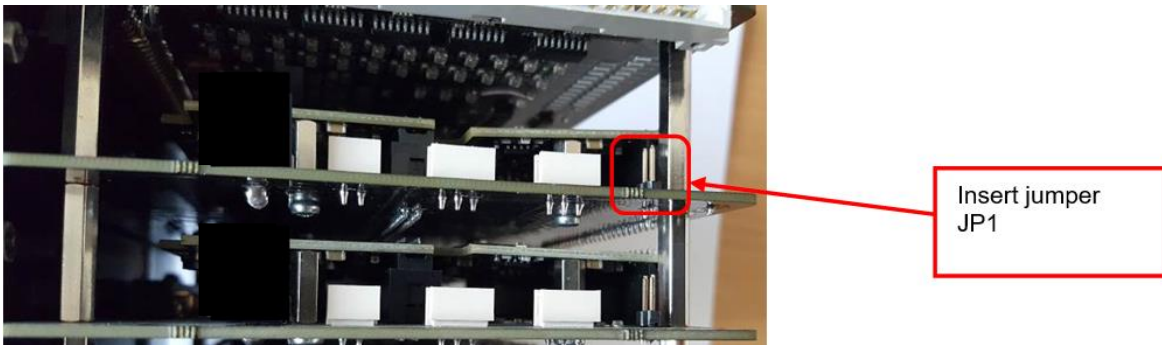
- Connect a programmer unit to be used as channels 9-16
- Run ICP for Windows
- Select ICP2-COMBO with **4** channels (Number of boxes = 1)
- Validate that communication with the programmer is OK (but ignore communication error if the programmer is already assigned to channels 9-16 or higher)



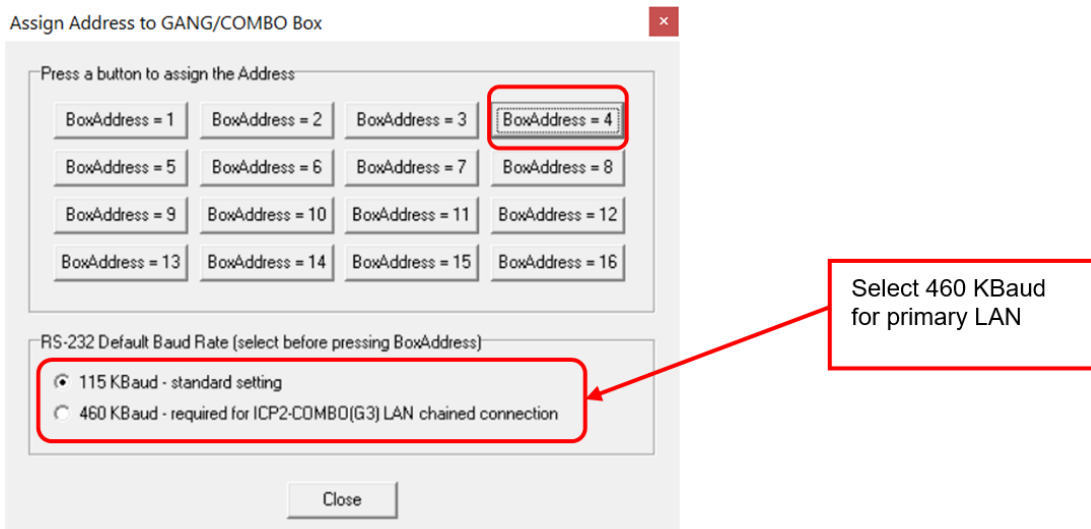


### 3.2 Step 2: Assign new box number for channels 5-8

- Insert jumper JP1 to disable channels 1-4
- **ATTENTION:** If "USB" LED is not ON then contact Softlog Systems (don't continue, workaround is required)



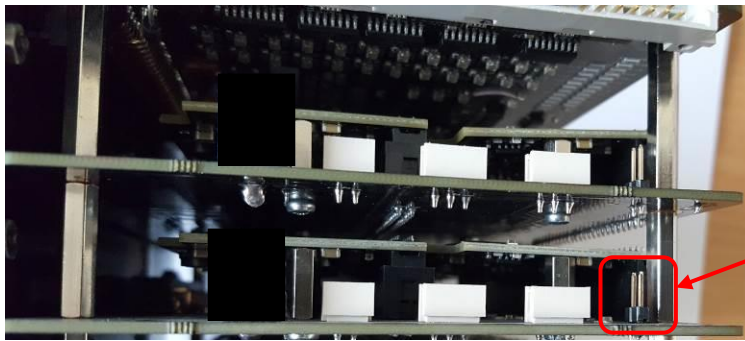
- Enter Programmer → Assign Address to GANG/COMBO Box:
  - set "RS-232 Default Baud Rate" as shown below
  - press BoxAddress = **4**



- Remove jumper JP1
- **IMPORTANT:** Turn power OFF and then ON

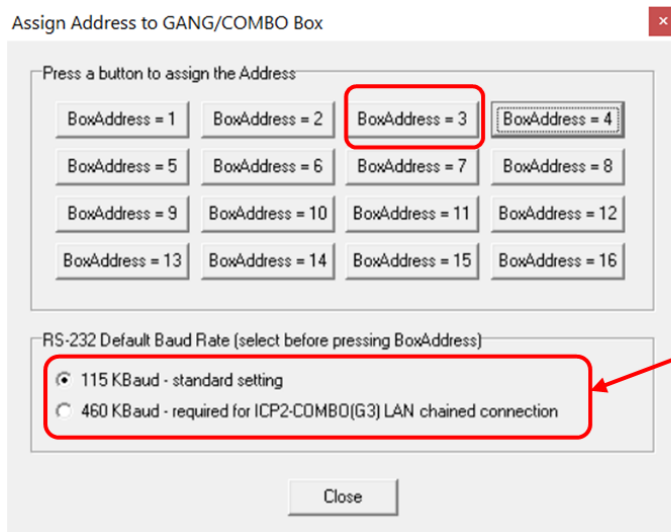
### 3.3 Step 3: Assign new box number for channels 1-4

- Insert jumper JP1 to disable channels 5-8



Insert jumpers JP1

- Enter Programmer → Assign Address to GANG/COMBO Box:
  - set “RS-232 Default Baud Rate” as shown below
  - press BoxAddress = **3**



Select 460 KBaud for primary LAN

### 3.4 Step 4: Remove all jumpers JP1

- Remove all jumpers JP1
- **IMPORTANT:** Turn power OFF and then ON
- Place sticker “Unit No.2 / Channels 9-16 / Baud Rate 115KBaud” on programmer unit number 2

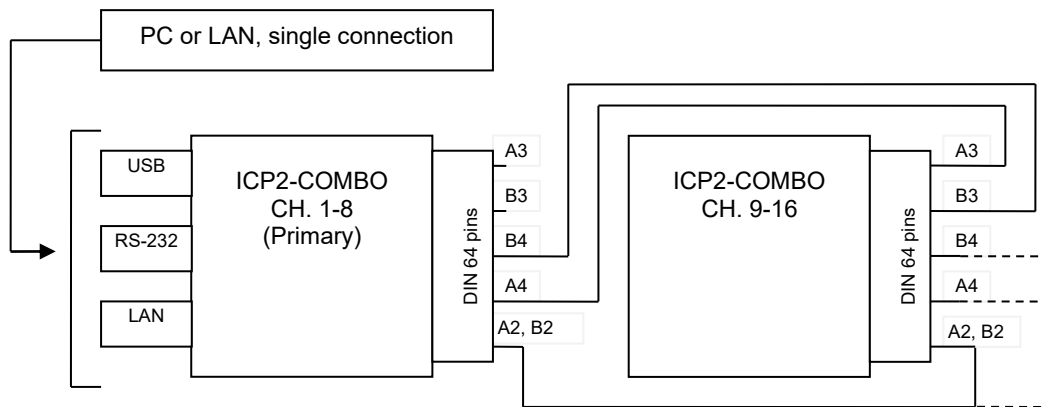
## 4 Address Assignment for Channels 17-24, 25-32, etc.

- Repeat paragraph 3 above for more channels if required as follows:
  - channels 17-24 as boxes 5 and 6
  - channels 25-32 as boxes 7 and 8
  - ...

## 5 Chain Connection

- **IMPORTANT:** apply power OFF/ON cycle for all programmer units after the assignment operations above
- Connect RS-232 output of programmer 1 (channels 1-8) to RS-232 input of programmer 2 (channels 9-16)

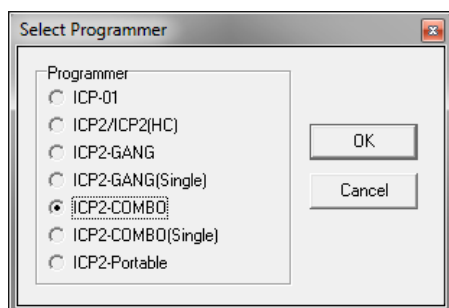
Net (as from Master)	Programmer Unit 1: Connector DIN-64	Programmer Unit 2: Connector DIN-64
GND_ISO	A2 or/and B2	A2 or/and B2
RS-232 (TX)	B4 (CHAIN_232_TXD_ISO)	B3 (PC_TXD_ISO)
RS-232 (RX)	A4 (CHAIN_232_RXD_ISO)	A3 (PC_RXD_ISO)



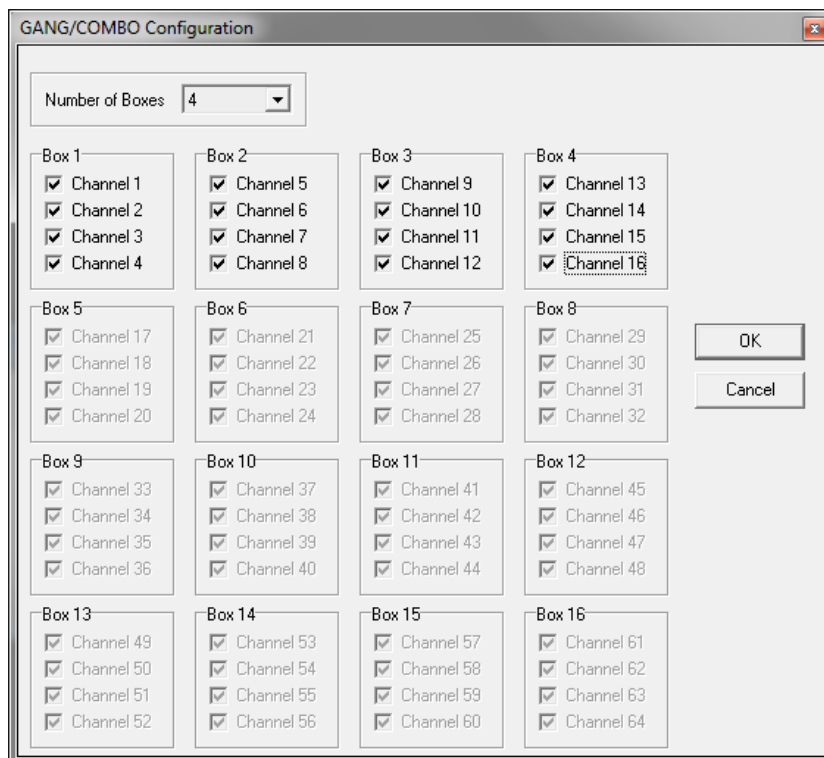
- If required: connect RS-232 output of programmer 2 (channels 9-16) to RS-232 input of programmer 3 (channels 17-24)

<b>Net (as from Master)</b>	<b>Programmer Unit 2: Connector DIN-64</b>	<b>Programmer Unit 3: Connector DIN-64</b>
GND ISO	A2 or/and B2	A2 or/and B2
RS-232 (TX)	B4 (CHAIN 232 TXD ISO)	B3 (PC TXD ISO)
RS-232 (RX)	A4 (CHAIN 232 RXD ISO)	A3 (PC RXD ISO)

- Select ICP2-COMBO mode (parallel programming): Programmer → Select Programmer → ICP2-COMBO



- Select required number of channels (16 channels shown):



- Validate that all channels work: Options → Activation of Options → Summary...

## 6 Appendix A: Operations in Chain for ICP2-COMBO(G3)

##	Primary Connection	Primary Programmer: RS-232 Default Baud Rate	Programmers in Chain: RS-232 Default Baud Rate	Functionality
1.	USB	Any	Any	All operations
2.	LAN	Any	460KBaud	All operations (bootloader 3.1 or higher), otherwise all operations <b>excluding firmware upgrade</b>
3.	RS-232, true COM port (115KBaud maximum)	115KBaud	115KBaud	All operations
		Any	460KBaud	Communication error
		460KBaud	Any	Can't open port
4.	RS-232, virtual COM port	Any	Any	All operations. Note: virtual COM supports 921KBaud or more)

## 7 Appendix B: Operations in Chain for ICP2-COMBO

Note: RS-232 default baud rate is fixed to 115KBaud

##	Primary Connection	Primary Programmer: RS-232 Default Baud Rate	Programmers in Chain: RS-232 Default Baud Rate	Functionality
1.	USB	115KBaud	115KBaud	All operations
2.	LAN	115KBaud	115KBaud	Can't connect to programmer in chain
3.	RS-232, true COM port	115KBaud	115KBaud	All operations
4.	RS-232, virtual COM port	115KBaud	115KBaud	All operations

## 8 Revision History

- Jan-2026:
  - added a drawing of the chain connection, see paragraph 5
  - updated LAN functionality (all operations with bootloader 3.1 or higher), see paragraph 6
- Jan-2022: added power OFF/ON cycle after every assignment operation
- Jul-2020: added "RS-232 Default Baud Rate" for proper operation with LAN connection
- Jan-2019: Original document