

ICP2-COMBO-8: Address Assignment to Programmer

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

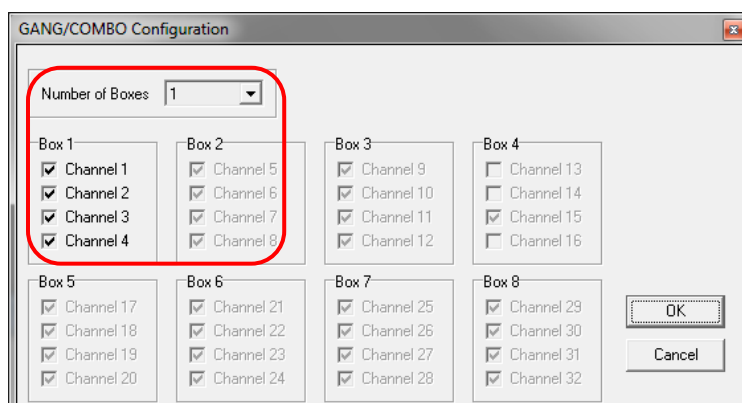
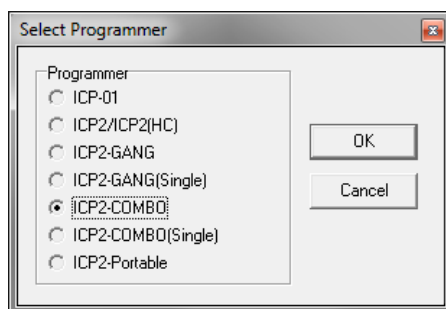
2 Important

- “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: **460KBaud**, 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)

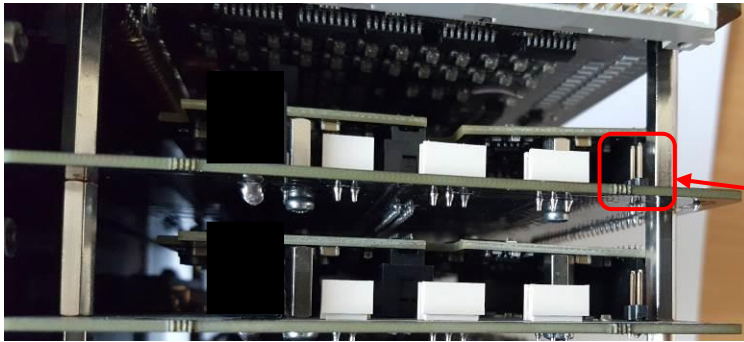
3.1 Step 1: Run ICP for Window

- 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)



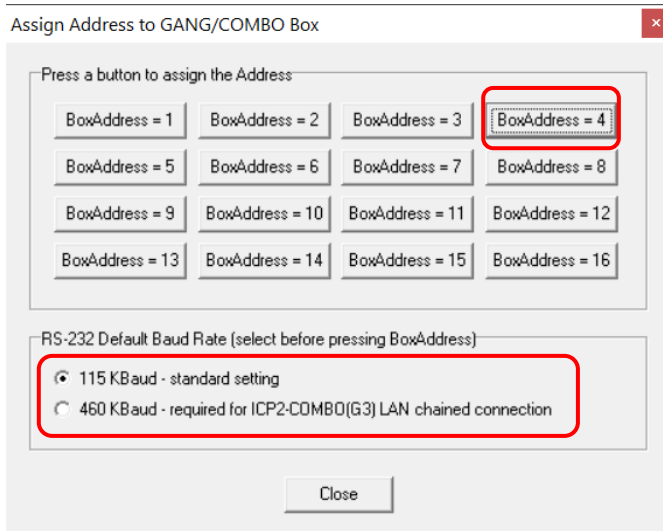
3.2 Step 2: Assign new box number for channels 5-8

- 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)



Insert jumper JP1

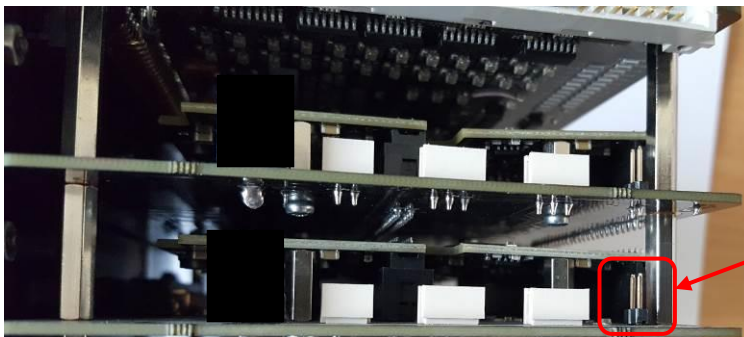
- Enter Programmer → Assign Address to GANG/COMBO Box:
 - set "RS-232 Default Baud Rate" as shown below
 - press BoxAddress = **4**



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

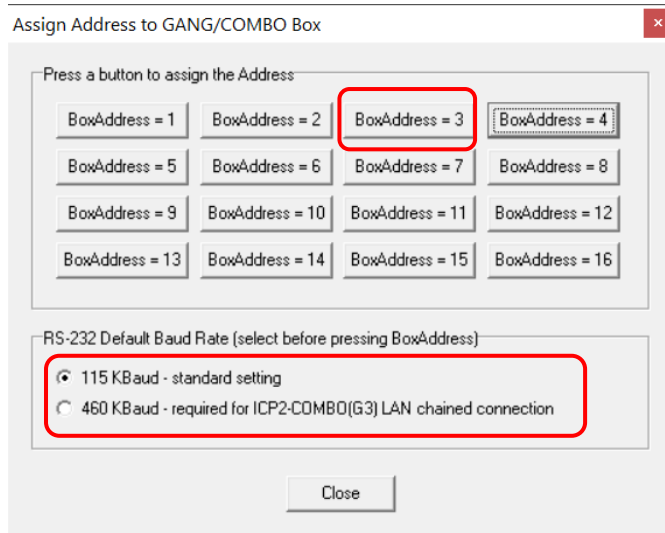
3.3 Step 3: Assign new box number for channels 1-4

- 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**



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

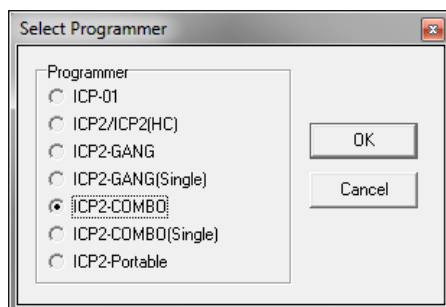
- **IMPORTANT:** apply power OFF/ON cycle for all programmer units after the assignment operations above
- Connect RS-232 output of programmer 1 (channels 1-8) to RS-232 input of programmer 2 (channels 9-16)

<i>Net (as from Master)</i>	<i>Programmer Unit 1: Connector DIN-64</i>	<i>Programmer Unit 2: Connector DIN-64</i>
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)

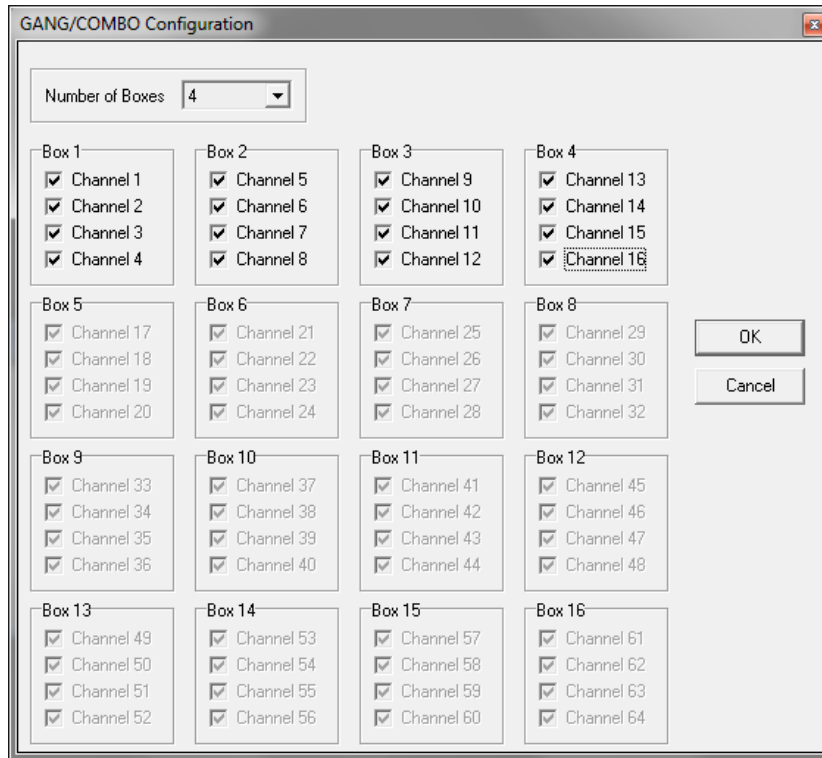
- If required: connect RS-232 output of programmer 2 (channels 9-16) to RS-232 input of programmer 3 (channels 17-24)

<i>Net (as from Master)</i>	<i>Programmer Unit 2: Connector DIN-64</i>	<i>Programmer Unit 3: Connector DIN-64</i>
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 excluding firmware upgrade
3.	RS-232, true COM port	115KBaud	115KBaud	All operations
		Any	460KBaud	Communication error
4.	RS-232, virtual COM port	Any	Any	Can't open port
				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-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