

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: <u>460</u>KBaud, ICP2-COMBO(<u>G3</u>) only
- Minimum firmware for LAN chained connection: 33.7 (Jul-2020)
- <u>All</u> 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 <u>all</u> programmer units after the primary interface is changed
- Firmware upgrade for entire chain (if required) should <u>not</u> 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

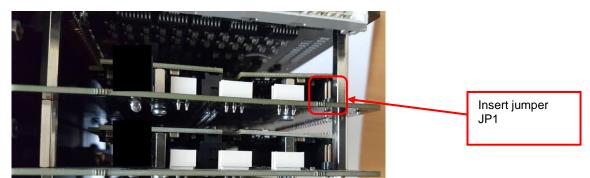
- Connect a programmer unit to be used as channels 9-16
- Run ICP for Windows
- Select ICP2-COMBO with <u>4</u> channels (Number of boxes = 1)
- Validate that communication with the programmer is OK (but ignore communication error if the programmer is already assigned to channels 9-16 or higher)

Select Programmer			
Programmer C ICP-01 C ICP2/ICP2(HC) C ICP2-GANG C ICP2-GANG(Single) C ICP2-COMBD C ICP2-COMBD C ICP2-Portable	OK Cancel		

GANG/COMBO Con	figuration			
Box 1	Box 2	Box 3	Box 4	
Channel 1	✓ Channel 5	✓ Channel 9	☐ Channel 13	
Channel 2	✓ Channel 6	✓ Channel 10	☐ Channel 14	
Channel 3	✓ Channel 7	✓ Channel 11	☑ Channel 15	
Channel 4	✓ Channel 8	✓ Channel 12	☐ Channel 16	
Box 5	Box 6	Box 7	Box 8	Cancel
Channel 17	Channel 21	Channel 25	Channel 29	
Channel 18	Channel 22	Channel 26	Channel 30	
Channel 19	Channel 23	Channel 27	Channel 31	
Channel 20	Channel 24	Channel 28	Channel 32	

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)



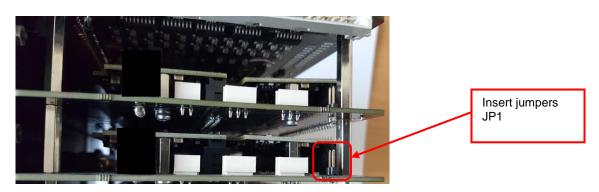
- Enter Programmer → Assign Address to GANG/COMBO Box:
 set "RS-232 Default Baud Rate" as shown below
 - press BoxAddress = <mark>4</mark>

BoxAddress = 1	BoxAddress = 2	BoxAddress = 3	BoxAddress = 4	
BoxAddress = 5	BoxAddress = 6	BoxAddress = 7	BoxAddress = 8	
BoxAddress = 9	BoxAddress = 10	BoxAddress = 11	BoxAddress = 12	
BoxAddress = 13	BoxAddress = 14	BoxAddress = 15	BoxAddress = 16	
RS-232 Default Baud Rate (select before pressing BoxAddress) 115 KBaud - standard setting 460 KBaud - required for ICP2-COMB0(G3) LAN chained connection				

- 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



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

sign Address to GAN	IG/COMBO Box				
Press a button to assig	in the Address				
BoxAddress = 1	BoxAddress = 2	BoxAddress = 3	BoxAddress = 4		
BoxAddress = 5	BoxAddress = 6	BoxAddress = 7	BoxAddress = 8		
BoxAddress = 9	BoxAddress = 10	BoxAddress = 11	BoxAddress = 12		
BoxAddress = 13	BoxAddress = 14	BoxAddress = 15	BoxAddress = 16		
RS-232 Default Baud Rate (select before pressing BoxAddress) (115 KBaud - standard setting C 429 KBaud - standard setting					
C 460 KBaud - required for ICP2-COMBO(G3) LAN chained connection					

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

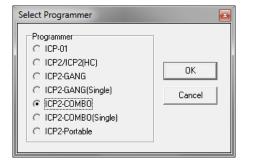
- **IMPORTANT:** apply power OFF/ON cycle for all programmer units after the assignment operations above
- Connect RS-232 output of programmer 1 (channels 1-8) to RS-232 input of programmer 2 (channels 9-16)

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)

Net (as from Master)	Programmer Unit 2: Connector DIN-64	Programmer Unit 3: 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)

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



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

ANG/COMBO Cont	figuration			
Box 1 Channel 1 Channel 2 Channel 3 Channel 4	Box 2 Channel 5 Channel 6 Channel 7 Channel 8	Box 3	Box 4 Channel 13 Channel 14 Channel 15 Channel 16	
Box 5 Channel 17 Channel 18 Channel 19 Channel 20	Box 6 Channel 21 Channel 22 Channel 23 Channel 24	Box 7	Box 8 Channel 29 Channel 30 Channel 31 Channel 32	OK Cancel
Box 9 Channel 33 Channel 34 Channel 35 Channel 36	Box 10 Channel 37 Channel 38 Channel 39 Channel 40	Box 11	Box 12 Channel 45 Channel 46 Channel 47 Channel 47 Channel 48	
Box 13 Channel 49 Channel 50 Channel 51 Channel 52	Box 14 Channel 53 Channel 54 Channel 55 Channel 56	Box 15 Channel 57 Channel 58 Channel 59 Channel 60	Box 16 Channel 61 Channel 62 Channel 63 Channel 64	

• Validate that all channels work: Options \rightarrow Activation of Options \rightarrow Summary...

6 Appendix A: Operations in Chain for ICP2(COMBO)-<u>G3</u>

##	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
		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-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