Controlinc Network Master Firmware Download Procedure

M124 and M250 Models



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Section 1: Firmware Download Procedure

- 1. Turn off power to master to be upgraded. Power may remain on the other chassis.
- 2. Remove Coprocessor from the PLC rack slot 1 (first module beside the main CPU).
- 3. Insert the "Clear All" jumper onto the 2-pin header.



- 4. Insert the module back into the rack.
- 5. Cycle power to the master on and then off.
- 6. Again, remove the Coprocessor form the rack.
- 7. Remove the "Clear All" jumper and place on only one pin of the 2-pin header.
- 8. Insert the module back into the rack.
- 9. Connect RJ12 cable end to Port 1 of the Coprocessor and the DB9 end to the PC.
- 10. Turn on power.

11. Open ABM Commander application on the PC.



12. Click Continue.



13. Click Facts and Basic.

FADY'S	BM Commander for Windows (Main) V1.45 — 🗌	\times
File	Communication Help	
	Click Facts Basic	
	COMMAND MODE	
	FACTS Connect to Basic Module BASIC	

14. Click System_Stats.

🔄 ABM Commander for Windows Comma	and Window	v V1.45			_		×
EXit SYstem_Stats Del ErAse NeW E Cls Info	Edit Run	StoP Li	st Auto	ReNmbr	ReseT	SaVe	Sel
<u>× 🖻 🔿 M 🖻 </u> ?		•					
<u>System Stats</u> 0	Screen Wid	dth					
1. Click SYstem_Stats	PRM 0 READY >						
File Support Upload Interpreted Download Interpreted	2. Ma	ıke sur	e this	messad	ge is s	howr	
Ful					-		
C Partial Start DownLoad							
File Name 🗙	Conne	ect To Mod	ule		Disp	olay Win	dow
Port Select Command Port/ABM1 • 1 • 2							

15. Click Del.

Figure 6



16. Enter 1 and Click OK.

ABM com	mander delete		×
Enter the	program number to delete		ОК
2	1. Enter 1	2. Click OK	Cancel
1			

17. Click Yes.



18. Click New.



- Figure 10 Double click on empty text box S ut End File Name Conne Port Select Command Part/ADM1
- 19. Navigate to firmware file by Double Click on empty text box.

- 20. Select File per Model.
- First Coprocessor's file
 - For M124 Model use this file M124NXXX.ABM
 - For M250 Model use this file M250_XXX.ABM
- Second Coprocessor's file
 - For M124 Model use this file LCD124_X.ABM
 - For M250 Model use this file M25MBPXX.ABM
- Third and Fourth Coprocessor's share the same file
 - For M124 Model use this file M124MBXX.ABM
 - For M250 Model use this file M250MBXX.ABM
- 21. Click Start Download and Click Yes to confirm download.

22. When download is finished, click "SaVe" menu item at the top of the window. The message 1 program saved should be displayed.

Figure 11		
	nand Window V1.45 — 🗆 🗙	
	Edit Run StoP List Auto ReNmbr ReseT SaVe Sel	
	Screen Width	
	SAVE 1. Click SaVe	
	Saving program 1	
	1 store , tograms, 50286 program storage bytes free	
	PRM 0 READY >	
	2. Make sure saving Program 1 message is shown	
	Connect To Module Display Window	

23. Click in the "Command Line" box at the bottom of the window and then type AUTOSTART 1,1,9600 and hit Enter key.

Figure 13	
SAVE Sav 1 st	Make sure these messages are showed up
PRM READ >Auto Progra Port 1 (Port 2 (Port 3	0 0 1,1,9600 = 1, RUN (CLEAR) am = 1 Baud = 9600 Programming 2 = 9600) 3 = 9600)

- 24. Click StoP Before Programming the next Coprocessor.
- 25. Disconnect programming cable and reconnect network interface cable to Port 1 of the Coprocessor.
- 26. Move the mode switch on the main PLC processor to the "RUN" mode.
- 27. Cycle power to the master. The process for this master is complete.
- 28. Repeat the same process for the second PLC chassis in the network master box.

Appendix A: Short Version with No Pictures

- 1. Click SYstem_Stats
- 2. Click Del, Enter 1, OK, Yes
- 3. Click New
- 4. Choose a file
- 5. Start Download
- 6. Click SaVe
- 7. Do Autostart 1,1,9600
- 8. StoP

Appendix B: Network Master and Coprocessor's Layout

This Figure shows locations and identifications of each module.

Figure 14 P3 Debug port Processor Use supplied P3 adapter condary Network Master P1 Programming port Slot# CPU 0 3 1 2 4 ежен — Поредон секон — Поредон сиза — Сиза сиза — Сиза виза — Поредон и сиза NDVICT ICTINA NDVICT ICTINA אסים (אסטיים) מסיםם (אסטי נייםם (יייים) אסיםם (אסטיים) 205 DL250-1 CFU C'31 C' R'31 C R' 200 PORTI PORT1 PO RT1 PORT1 71 POF PORT3 PORT PO R1 100-240 VAC 50-60 Hz 80 VA G ND RS232 PO RT2 RS27 PORTS POR POI 0 18232 852 PO F RS4 RS4 PORT POR LG RS 422 RS 485 RS 422 RS 485 RS≰ RS∉ P2 Prog Port ⊓ ∔VDC OUT ∟ D.3A PO RT2 RS422 RS485 POR RS4 RS4 PO F RS4 RS4 PORT2 RS 422 RS 489 0 Г Order of Coprocessors

Appendix C: Programming Cable

Programming cable supplied with Network Master.



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