- 1. <u>1769-L32E- CompactLogix- 5332 Processor Unit:</u> Memory 720kb, Ethernet Communication Link, RS-232 serial Communication Link (DF1 or ACSII), Embedded I/O: 16DC i/p, 16 DC o/p, Analog 4 i/p & 2 o/p, 4 High Speed Counters.
- 2. <u>1769-PA4 Power Supply:</u> 120/220 VAC,18W,25A, i/o Module.
- **3.** <u>1769-IQ16-A, DC Input Module:</u> 10-24-volt sink/source Digital 16 input Mode.
- 4. <u>1769- OW8-B, O/P Module:</u> 8-point Vac/Vdc, Normally Open
- 5. 1769-IF4-B, Analog Current/Voltage Input Module: 4-channel
- 6. <u>1769- OF2-B, Analog Output Module:</u> 2 single ended Current or Voltage
- 7. <u>1769-SDN, Device Net</u>: SCANNER & COMMUNICATION, 125.250,500 Kbps 440mA.
- 8. <u>1769-ECR-A</u>: Compact Logix End Cap Terminator Right.





Fig: Compact Logix "1769-L32E" DC I/O + AC I/O + Device Net

Download "RS-Logix 5000" with "RSLinx Classic & BootP-DHCP Server 2.3.2".

Connection from Rs-232 Cable

Connect "Rs-232 / F" to Computer, if doesn't work, go with USB "Moxa-UPort 1150"

Download the driver of Moxa-UPort-1150 if needed.



- **1.** Configure Port Connection through Ports of **Device Manager** as shown in figure.
 - 2. Connect RS-232 with the Compact Logic '1769-L32'.
- 3. Ensure the rest of the module is connected properly with termination cap at the end.
 - 4. Connect Compact Logic in Power Supply and Open the RSLinx Classic.
 - **5.** Communication port number may vary.

- 6. Open Rs-Linx Classic & Configure Driver to select "RS-232-Df1" Devices from the list.
- 7. Press "Add New" and press "ok" then select the "Comm Port No, Device" & Auto Configure to make Successful where you will see running then close it, if not worked check the cable.



🇞 RSLinx Classic Gateway - [RSWho - 2]			_
File Edit View Communications Station DDE/OPC Security Window	/ Help		
Autobrowse Refresh 🔀 🖭 Browsing - node 0 found			
E	f		-
🗄 📲 Linx Gateways, Ethernet			
॑몲 AB_DF1-1, DF1	00	01	02
🗄 🖞 01, CompactLogix Processor, 1769-L32E/A LOGIX5332E	Local 1769	1769-16	1769-8pt
🖻 🏢 Backplane, CompactLogix System			
00, CompactLogix Processor			
🗄 🗰 🔎 01, 1769-L32E Ethernet Port, 1769-L32E Ethernet Port			
🗄 🖓 03, Local 1769 Bus Adapter, VA1769/A			
📄 📲 1769 Bus, 1769 Bus			
🗊 00, Local 1769 Bus Adapter			
01, 1769-16pt 24Vdc Snk/Src Inp/A/FW Rev 3.1			
02, 1769-8pt ac/dc Relay Output/B			
For Help, press F1		NUM	11/07/19

In total now only '1' power supply and '2' DC I/O are connected so 3 modules are shown. <u>Now open the RS-Logic 5000 and program it to control PLC</u>

Connection with the Ethernet:

Make sure you are connected to RS-232 and from there you have to assign new "BOOTP" IP address for the ethernet. Perform according to given process AND PRESS OK.



Open the BOOT/DHPC Server 2.3 and double click the MAC address and assign IP address and press ok.

Clear History	Add to	File Add		10.4.14			
(nr:min:sec) 9:17:13 9:17:09	BOOTP BOOTP	00:00:BC:22: 00:00:BC:22:	Iess (MAC) 5D:EB 5D:EB	IP Address	Hostname		Í
9:17:05 9:17:00 9:16:55	BOOTP BOOTP BOOTP	00:00:BC:22: 00:00:BC:22: 00:00:BC:22:	5D:EB 5D:EB 5D:EB	New Entry			:
9:16:51 9:16:48	BOOTP	00:00:BC:22: 00:00:BC:22:	5D:EB	Ethernet Address (MAC)	000080	225DEB	
elation List New Delet	e Enable	BOOTPEr	able DHCP	IP Address Hostname	192.	168.0	. 200
Ethernet Addre	ess (MAC)	Туре	IP Address	Description	-		
					OK	C	ancel

'In Relation List' you can see the new IP address linked with BootP where to make it static click "Disable Boot/DHCP until it shows status Successful.

BOOTP/DHCP Server 2.3	_		×
Request History Clear History			
(hyminaec) Ture Ethemet Address (MAC) IR Address Hostname			
(III.Initisec) Type Extended address (IAEC) If Address Hostidate 9:17:32 DHCP A4:40:C8:01:38:36 9:17:22 BOOTP 00:00:BC:22:5D:EB 192:168.0.200 9:17:19 BOOTP 00:00:BC:22:5D:EB 192:168.0.200 9:17:16 BOOTP 00:00:BC:22:5D:EB			
9:17:13 BOOTP 00:00:BC:22:5D:EB 9:17:09 BOOTP 00:00:BC:22:5D:EB 9:17:05 BOOTP 00:00:BC:22:5D:EB 9:17:05 BOOTP 00:00:BC:22:5D:EB			~
Relation List New Delete Enable BOOTP Enable DHCP Disable BOOTP/DHCP			
Ethernet Address (MAC) Type IP Address Hostname Description			
00:00:BC:22:5D:EB BOOTP 192.168.0.200			
Status [Disable BOOTP] Command successful		Entri 1 of 3	es 256

Now, we have to assign independent ethernet Driver to avoid RS-232 & its Ethernet link. Select and add Ethernet IP Driver and follow the steps & press ok.

🇞 RSLinx Classic Gateway - [RSWho - 1]	- 🗆
File Edit View Communications Station DDE/OPC Security Window Help	
<u>≥</u> # \$0 ® ≥ ×	
Autob Configure Drivers	? ×
Image: Second	Close Help
Name and Descripti Add New RSLinx Classic Driver X AB_DF1-1 DF1 Sta: Choose a name for the new driver. (15 characters maximum) OK AB_ETHIP-1 Cancel	Configure Startup Start

🏶 RSLinx Classic Gateway - [RSWho - 1]		_
File Edit View Communications Station DDE/OPC Security Window Help	þ	
Configure driver: AB_ETHIP-1	? >	×
EtherNet/IP Settings		
		_
AF Windows Default	Address	
Realtek PCIe GBE Family Controller 19	2.168.0.139	
OK Cancel App	ly Help	

You can see the A-B Ethernet Driver is running where the IP address 192.168.0.200 resides and "ping the IP address to confirm it is working.

RSLinx Classic Gateway - [RSWho - 1] File Edit View Communications Station DDE/OPC Security Winds	nw Help
	C:\Users\EIT>PING 192.168.0.200
Configure Drivers	AddNew Reply from 192.168.0.200: bytes=32 time=1ms TTL=64 Reply from 192.168.0.200: bytes=32 time=1ms TTL=64 Reply from 192.168.0.200: bytes=32 time<1ms TTL=64 Reply from 192.168.0.200: bytes=32 time=1ms TTL=64
Configured Drivers: Name and Description Sta AB_DF1-1 DF1 Sta: 0 COM2: RUNNING Run AB_ETHIP-1 A-B Ethernet RUNNING Run	Ping statistics for 192.168.0.200: Packets: Sent = 4, Received = 4, Lost = 0 (0% 1 Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 1ms, Average = 0ms

RS-232 Connection not required if you are controlling with ethernet address. The following figure shows "192.168.0.200" IP address for "1769-L32-E" Compact Logix PLC.

Now you can open the RS-Logix 5000 and program it.

🗞 RSLinx Classic Gateway - [RSWho - 9]	-	_ ×
File Edit View Communications Station DDE/OPC Security Window Help		- 8 ×
Autobrowse Refresh		
E- S Workstation, DESKTOP-01M055P		
E 🚠 Linx Gateways, Ethernet		
E → AB_ETHIP-1, Ethernet 192.168.0.200		
⊕-♥ 192.168.0.200_1769-L32E Ethernet Port, 1769-L32E Ethernet Port 1769-L32E		

Thanks.