Table of Contents

1.	Introduction to AB MicroLogix ABMLGX Driver	. 1
1.1	AB MicroLogix PLC Settings	1
2.	Configure AB MicroLogix PLC connection by using ABMLGX	. 3
2.1	Device Setting	4
2.2	Tag property	5
2.3	Parameter List	5

1. Introduction to AB MicroLogix ABMLGX Driver

Connect to AB MicroLogix PLC by using DF1 protocol over Ethernet.

1.1 AB MicroLogix PLC Settings

To configure your PLC you will have to install two software: RSLinx which is the Allen-Bradley connection manager and RS Logix Micro for Micrologix series or RS Logix 5000 for CompactLogix and ControlLogix series.

🖬 Rockwell Software 🔹 🕨	FactoryTalk Activation	•
Advanced IP Scanner	🛅 FactoryTalk Tools	•
🕐 Help	🛗 RSLogix 5000 Enterprise Series	►
👸 RSLogix 5000	🛅 Utilities	•
RSLogix 5000 Tutorials and Demos	BOOTP-DHCP Server	•
	🛅 RSLinx	⊁









Figure 1.3 BOOTP-DHCP Server

Before connecting to the module if it has not been configured you need to set the IP address. Open the BOOTP server and make a new BOOTP request (Create a new relation)

hr:min:sec)	Туре	Ethernet Address (MAC)	IP Address	Hostname	
lation List					
New Dele	te Enab	le BOOTP Enable DHCP	Disable BOOTP/DHCP		
	ess (MAC)	Type IP Address	Hostname	Description	1
Ethernet Addr	And in case of the local division of the loc				
Ethernet Addr					
Ethernet Addr					

Figure 1.4 BOOTP-DHCP Server Interface

New Entry	
Ethernet Address (MAC): IP Address: Hostname: Description:	
Description.	OK Cancel



The MAC address of your PLC should be written on the hardware. Type the mac address and choose an IP address to set it to the PLC.

Now Open RSLinx to define the communication between the PLC and Allen-Bradley software.

Add a new driver of Ethernet/IP type.

RSLinx Classic OEM File Edit View Communications Station DDE/OPC Security Window Help Security RS-232 DF1 devices Ethernet.devices Ethernet.devices Ethernet.devices T784-KT XCID/PCMK for DH+/DH-485 devices T784-KT XCID/PCMK tor DH+/DH-485 devices T784-KT XCID/PCMK tor DH+/DH-485 devices T784-KT XCID/PCMK tor DH+/DH-485 devices T784-KT XCID/PCMK tor DH+/DH-485 devices T784-KT XCID/PCMK tor DH+/DH-485 devices T784-KT XCID/PCMK tor DH+/DH-485 devices T784-KT XCID/PCM TY84-KT XCID/PCMK tor ControlNet devices T84-PCIC for ControlNet devices T784-KT XCID/PCMK tor ControlNet devices T84-PCIC / AIC+ Driver DF1 Slave Driver SS SD/SD2 for DH+ devices Yitual Backplane (SoftLogicSbax) DeviceNet Drivers (T784-FCD/PCIDS,1770-KFD,SDNPT drivers) PLC-S (DH+) Emulator driver SoftLogix5 driver Remote Devices vi	Add New	Close Help Configure Startup Start Stop Delete	
For Help, press F1	N	UM 06/12/09 0	9:38 AM

Figure 1.6 Setup Ethernet/IP Driver

Enter the IP address of the PLC

_ & \$ 0 0 1 1 1 1 1	oningule drive	e. Ab_cit-1		
PRANE 1	Station Mappi	ing	1	
Astohowse Batteth Ba 1991 Browsing ande	Station	Host Name	Add New	2.23
Workstation, YVES-BROADWIN ☆ Linx Gateways, Ethernet ☆ AB_DF1-1, DH-485 ☆ AB_DF1-1, DH-485 ☆ AB_ETH-1, Ethernet 192.168.200.186, MicroLogix 1400, SLC500	0 1 63	192.168.200.186 Driver	Delete	

Figure 1.7 Setup AB_ETH-1 IP Address

2. Configure AB MicroLogix PLC connection by using ABMLGX

2.1 Device Setting

Project Configuration «	NewDevice(test)* ×
e- test	Apply Discard
🚊 🔤 Data Center	General Information
Data Center Data Center Data Conter Data Conter Conte	General Information
⊞	
Parie et Casfervetian	- NewDevice(test)* ×
Project Configuration	
er lest	Apply X Discard
Data Center Jo Tag OCM1(Disable) COM2(Disable) COM3(Disable) COM4(Disable) COM4(Disable) Common Common Common Common Calculation Tag Calculation Tag Calculation Tag Calculation Tag Calculation Tag Calculation Tag Calculation Tag Calculation Cage Common	General Information Carlot Enable Name: NewDevice Device Type: Allen-Bradley Micro Logix Series PLC (DF Device Model Double Click to Select Device Template Unit Number: 1 Tag Write Type: Single Write Description: Carlot Add device name as prefix to 10 tags Carlot device name as prefix to 10 tags Carlot Number: 44818 Extention Properties Device Address (if other than Unit Number): Carlot Device Address (i

- 1. Unit Number can not be the same as others.
- 2. Port Number of PLC is 44818 by default.

2.2 Tag property

T Basic		
Name:	NewTag	
Data Type:	Discrete	•
Address:	I:000/00	
Signal Reverse:	False	•
Start Bit:	0	
Length(bit):	1	
Initial Value:	0	
Scan Rate:	1	
Read Write:	Read	•
Description:		

2.3 Parameter List

Address format	Date Type	Description
B3:0	Analog	Binary File
C5:0.ACC	Analog	Counter ACC
D9:0	Analog	BCD File
F8:0	Analog	Floating Number File
L9:0	Analog	Long File
N7:0	Analog	Integer File
S:0	Analog	Status File
T4:0.ACC	Analog	Timer ACC
1:000/00	Discrete	Input
O:000/00	Discrete	Output
S:0/0	Discrete	Status file / Discrete