

V680S-CJ Ethernet IP Haberleşme

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Açıklama :

Bu dökümanda V680S RFID ile NJ_NX PLC EthernetIP haberleşmesi anlatılacaktır. Aşağıdaki mimaride gösterildiği gibi bir adet V680S Reader/Writer ve bu RFID modeline bağlı bir adet RF Tag bağlanmıştır. Bu RFID Tag in verisini kontrolcüde kullanabilmek için EthernetIP üzerinden haberleşme bağlantısı gerçekleştirilmiştir.



RFID Elektriksel Bağlantılar :

V680S RFID elektriksel bağlantıları aşağıdaki tabloda gösterilmiştir:



V680S RFID Haberleşme Ayarları :

 V680S RFID ürününün PC bağlantısı ve elektriksel bağlantılarına aşağıdaki bağlantıdan ulaşılabilir: <u>https://destek.omron.com.tr/wp-content/uploads/2020/12/V680S-RFID-PC-</u> <u>baglantisi.pdf</u> 2- Google Chrome üzerinden, adres çubuğuna RFID ürünün IP adresini yazarak konfigurasyon ekranına bağlanılır:

S V680S RFID Reader/Writer	× +		
\leftarrow \rightarrow C (\blacksquare Güvenli değil	192.168.1.200		
🗇 Anadolu Hayat Eme 📙 Her Za	man 🗴 Omron Teknik Dest 📗 Performans,Den	no L 📕 Fast Replacement 📕 Level2+E-Learning	📙 Ürün Seçimi 📙 Muadil 📙
		(I ID Readel/Willer	
			English 🗸
Status	Status		
Network settings	Model	V680S-HMD66-EIP	
RF Tag communication settings	Firmware version	4.00	
Multi Reader/Writer settings	SAFE mode program	4.00	
RF Tag communications	MAC address	00:00:0A:DF:B9:93	
Log view	Run mode	RUN	
Noise monitor	Status	Idling	
RF Analyzer	Operating time	0:20:18	
Reboot			
Configration			

RFID kontrolcüye bağlanmak için standart IP adresi 192.168.1.200'dür.

3- Ardından RFID ürününe haberleşmede erişebilmek için 192.168.250.2 IP adresi tanımlanır. Bu adresi tanımlama için aşağıdaki adımlar izlenir:

OMRON V680S RFID Reader/Writer

		English	~
Status	Status		
Network settings	Model	V680S-HMD66-EIP	
RF Tag communication settings	Firmware version		
Multi Reader/Writer settings	RUN mode program SAFE mode program	4.00	

OMRON V680S RFID Reader/Writer

		English 🗸
Status	Network settings	
Network settings	TCP/IP settings Web password	
RF Tag communication settings	Fixed setting	
Multi Reader/Writer settings	IP address	[192.168.250.2
	Subnet mask	255.255.255.0
RF Tag communications	Gateway address	192.168.1.254
Log view	⊖Obtain from BOOTP server	
Noise monitor	⊖ Fix at the IP address which is obtained from BC	DOTP server
RF Analyzer	Device name	
		Set 2

Bu uygulamada RFID ürününe 192.168.250.2 adresi verilmiştir.

4- Set butonuna basıldıktan sonra gelen uyarı ekranından "Yes" butonuna basılır. Ve haberleşme için ilgili IP adresi atanmış olunur.

192.168.1.200 web sitesinin mesajı

If these values are incorrect, it may be impossible to communicate. Do you want to set them?



192.168.1.200 web sitesinin mesajı

Setting has been completed. The new settings will become effective after rebooting the Reader/Writer.



5- Tag her geldiğinde RFID ürününün okuması için "RF Tag Communication Settings" menüsünden aşağıdaki ayarlar yapılır. Bu şekilde RFID ürününde tüm ayarlar tamamlanmış olur.

	OMRON V680S RFIE	Reader/Writer		
			English	~
Status	RF Tag communication settings	1		
Network settings	RF Tag communications option	Once	~	
RF Tag communication	RF Tag communications condition	-		
Settings	RF Tag communications speed	High speed	~	
settings	Vrite verify			
RF Tag communications	RF Communication Diagnostics	OEnable	 Disable 	
Log view			2	
Noise monitor			Set	
RF Analyzer				
Reboot				
Configration				

PLC Haberleşme Ayarları :

1- CX-Programmer programında PLC ye "PLC" menüsünden "Auto Online" bölümünden "Direct Online" yöntemi ile bağlanılır:





Not: Bu uygulamada PLC ye USB kablosu ile bağlanılmıştır.

2- Ardından PLC program moda geçirilir:



3- Daha sonra IO Table and Unit Setup menüsü açılır:

Ì	[만] File	Edit	View 1	PLC	Program	Simulation	Tools	Window	Help
	 □		 da ⊜ Q. <		ork Online uto O <u>n</u> line perating <u>M</u> lonitor	ode	(Ctrl+W	◨▫▫ ▯ ? № <u> ▲ 歳 巻</u> ┺ ┺ ┺ ॥ — ़ ҂ ҂ 目 छ स ∟ ┡ ╚ थ ड छ ୠ ୠ ▶ ■ ा ▶ ╚ थ
	¥, III, III, III, III, III, III, II	ewPro	bject wPLC1[CJ2M] Sto Data Types Symbols IO Table and Uni	Pr Pr M T <u>r</u> <u>P</u> a	ompile <u>A</u> ll F rogram Che rogram Assi lemor <u>y</u> Allo ansfer artial Transf	PLC Programs eck Options ignments iccation er		F7	ne : NewProgram1] e : Section1]
			Settings Memory card Error log PLC Clock Memory Programs NewProgram Symbols Symbols	21 21 ci ci ti ti Ti	rotection lear All Mer dit hange Mod hange Com ata Trace me C <u>h</u> art N	nory Areas	ettings	•	Information Information Settings Memory Card Memory Cassette/DM Reset CP1/CP2 Ruilt-in Ethernet Port
1				Fo	orce				Neset OF I/ OF 2 Duite III Ethemet Port

Untitled - CX-Programmer - [[Stopped] - NewPLC1.NewProgram1.Section1 [Diagram]]

4- Daha sonra IO Table menüsü açıldıktan sonra, PLC ye IP adresi tanımlamak için gelen menüden CJ2M-EIP21 PLC üzerindeyken farenin sağ tuşuna basarak Unit Setup menüsüne girilir:



5- Açılan haberleşme ayarları menüsünden TCP/IP sekmesinden IP adresi 192.168.250.1 olacak şekilde ayarlanır ve Transfer (PC to Unit) yöntemi ile PLC ye gönderilir:

CJ2M-EIP21 [Edit Parameters]	×
TCP/IP Ethemet FINS/UDP FINS/TCP FTP Au	uto Adjust Time Status Area SNMP SNMP Trap
-IP Address	• Not use DNS
Use the following address	C Use DNS
IP Address 192 . 168 . 250 . 1	Primary DNS Server 0 . 0 . 0 . 0
Sub-net Mask 255 . 255 . 255 . 0	Secondary DNS Server 0 . 0 . 0 . 0
Default Gateway 0 . 0 . 0 . 0	Domain Name
 Get IP address from the BOOTP server The BOOTP setting is valid only for next unit restart (power restoration). Then, the BOOTP setting will be cleared. The obtained IP address will be automatically saved as system setting in the unit. 	IP Router Table IP Address Gateway Address Insert Delete
Broadcast All 1 (4.3BSD) All 0 (4.2BSD)	
Transfer[Unit to PC] Transfer[PC to Unit] Comparison Set Defaults	are <u>R</u> estart OK Cancel
Edit Parameters X	Edit Parameters
Parameters will be transferred to Unit. Do you want to continue?	
Yes No	Transfer successful Close
Edit Parameters	× Edit Parameters ×
It is necessary to restart the unit to do the transfer effectively. Do you wish to restart the unit?	red setting The unit was restarted.
Yes	No

- CJ2M-EIP21 [Edit Parameters] \times TCP/IP Ethemet | FINS/UDP | FINS/TCP | FTP | Auto Adjust Time | Status Area | SNMP | SNMP Trap | IP Address Not use DNS Use the following address C Use DNS 192 . 168 . 250 1 IP Address Primary DNS Server 0.0.0.0 Sub-net Mask 255 . 255 . 255 . 0 0 0 0 Secondary DNS Server 0 Default Gateway 0 . 0 0 0 Domain Name C Get IP address from the BOOTP server The BOOTP setting is valid only for next unit IP Router Table restart (power restoration). Then, the BOOTP setting will be cleared. IP Address Gateway Address The obtained IP address will be automatically Insert saved as system setting in the unit. Broadcast All 1 (4.3BSD) All 0 (4.2BSD) Transfer[PC to Unit] Transfer[Unit to PC] Compare Restart Set Defaults OK Cancel Edit Parameters Compare successful Close CJ2M-EIP21 [Edit Parameters] \times TCP/IP Ethemet | FINS/UDP | FINS/TCP | FTP | Auto Adjust Time | Status Area | SNMP | SNMP Trap | IP Address Not use DNS Use the following address C Use DNS 192 . 168 . 250 . IP Address 1 Primary DNS Server 0.0.0.0 255 . . 255 . 255 0 Sub-net Mask Secondary DNS Server 0 . 0 0 0 . 0 Default Gateway 0 0 0 Domain Name C Get IP address from the BOOTP server The BOOTP setting is valid only for next unit restart (power restoration). Then, the BOOTP setting will be cleared. The obtained IP address will be automatically saved as system setting in the unit. IP Router Table IP Address Gateway Address Insert Broadcast All 1 (4.3BSD) C All 0 (4.2BSD) Transfer[Unit to PC] Transfer[PC to Unit] Compare Restart Set Defaults OK Cancel
- 6- Bu işlem bittikten sonra Compare butonu ile girilen IP adresi doğrulanır:

Network Configurator Ayarları :

 Network Configurator ayarlarını yapabilmek için IO Table menüsünden Start with Settings Inherited menüsünden Network Configurator seçilerek Network Configurator menüsüne girilir:



2- Network Configurator başlatıldıktan sonra Option menüsünden CJ2M PLC'ye USB portundan bağlanılacağı seçilir:

💐 Untitled - Network Configurator							
File Edit View Network Device EDS File Tools	Option Help						
🗋 🖆 🔜 💂 👼 🔯 🐛 🍇 🦃 🎸	Select Interface 🔹 🕨	CJ2 USB/Serial Port					
, ☆ = ʒ ʒ � ◆ √ = # ₽ £	Edit Configuration File	CS/CJ1 Serial Port -> DRM Unit I/F CS/CJ1 Serial Port -> EIP Unit I/F					
× ODe	Setup Monitor Refresh Timer	Ethernet -> CS/CJ1 ETN-DRM Unit I/F					
Gendor Gendor	Install <u>P</u> lugin Module	DeviceNet I/F Ethernet I/F					

3- Ardından CJ2M PLC ye bağlanabilmek için Network menüsünden Connect butonuna basılır:

💐 Untitled - Network Configurator								
File Edit View	Network	Device	EDS File	Tools	Option	Help		
🗅 😂 🔲 📮 🚊 <u>C</u> onnect						Ctrl+W		
	👳 Disco <u>r</u>	nect			Ctrl	+Q		
	Schange Connect Network							
Vendor	Wireles	s Networ	k			•		
	😂 <u>U</u> ploa	d			Ctrl	+U		

4- Daha sonra USB portu seçilerek Ok butonuna basılır:

💐 Untitled - Network Configurator		
File Edit View Network Device E	DS F	File Tools Option Help
] 🗅 📽 🖬 🛢 👼 🖓 🐘 🗞		: 🗽 🎸 🍜 🐰 🖻 💼 🗙 🏊 👫 🏢 🏛
🐔 🛙 🖬 🏼 🔶 🔷 🖉 🕋	×4	│፼ £ <mark>\$</mark> \$\$\$ ⊡ 1 \$ \$\$
	x	Setup Interface X
Communications Adapter Ac Drive Device Communications Adapter General Purpose Discrete I, Generic Device Human-Machine Interface Safety Discrete I/0 Device Safety Network Controller Safety Network Controller		Port Type USB Port OMR0 Baud Rate 115200 Bit/s OK Cancel
🗐 🦲 Vendor		

5- Beliren ekrandan CJ2M-EIP21 PLC seçilerek, TCP:2 bölümüne tıklanarak Ok butonuna basılır:



Not: Yukarıdaki resimde gösterildiği gibi Ethernet portu aktif olduğu anda Ethernet/IP_1 mavi renk olur.

6- Ardından Network menüsünden Upload butonu ile PLC ve RFID kontrolör Network Configurator'e çağırılır. Bu işlemler sırasıyla aşağıdaki görsellerde belirtilmiştir:

💐 Untitled - Network Configurator File Edit View Network Device EDS File Tools Option Help Connect... Ctrl+W 🗅 📻 🔚 💂 Disconnect... Ctrl+Q éŇ. 1 T Change Connect Network... herNet/I 🌉 Network Config Wireless Network ٠ 💐 DeviceNet 💐 EtherNet/ <u>Upload</u> Ctrl+U 🖮 🧰 Vendor Ctrl+D Download 🖲 📃 OM Verify Structure Ctrl+E 🖲 🧓 Om 🖻 👰 Device I/O Connection ۲ Cor - 🖧 Ger + Update Maintenance Information Mol ÷. Update Device Status 률 Pov + Pro Connection Structure 💐 Untitled - Network Configurator File Edit View Network Device EDS File Tools Option Help 🗅 🚅 🛃 🛓 🖓 [석, 석, 📚 😻 🏈 [상, 🖻 🛍 🗙 🖳 🛍 🏥 🛍 🖏 🐔 🗒 🔄 🗃 🔶 🔶 🔽 📳 🖉 😭 🗳 🖄 💼 🔍 👪 🗑 DeviceNet_1 Control EtherNet/IP_1 💐 Network Configurator DeviceNet Hardware
 EtherNet/IP Hardware Network Configurator \times endor E @ OMRON Corporation Uploading all devices parameters from network will start 🗄 👼 Omron Microscan System based 폖 DeviceType on the current document. 🗄 🚠 Communications Adapter OK? 🐴 Generic Device ÷ Motor Condition Monitorin If you select "No", it will start as new document, ÷ ÷ 嚞 Programmable Logic Cont ÷ Safety Discrete I/O Devic No Cancel Ves ÷ ÷ Safety Laser Scanner - 🚠 Safety Laser Scanner ÷ Thermal Condition Monitoring D ÷ Vendor Specific, Machine Visio

💐 Untitled - Network Configurator
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>N</u> etwork <u>D</u> evice ED <u>S</u> File <u>T</u> ools <u>O</u> ption <u>H</u> elp
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DeviceNet_1 Carferenter
Retwork Cornigulator DeviceNet Hardware Target Device X
EtherNet/IP Hardware
OMRON Corporation
ie-lie Omron Microscan System ✓ 192.168.250.2
E Communications Adapter
🗄 📲 Generic Device
🗄 📲 Programmable Logic Con
terrander Safety Laser Scanner
ie Safety Network Controlle
terman Condition Monitor ∰
Add 2 Edit Delete Off-line Device
OK Cancel
Su Unitided - Network Configurator - X
Elle Édit View Network Device EDSFile Jools Option Help
Network Configurator DeviceWet / Contentioner/
B Wendor Grig OMRON Corporation G. GUMON Microcens Systems Inc.
Image: Constructions Adapter Image: Constructions Adapter Image: Constructions Adapter Image: Constructions Adapter Image: Constructions Adapter Image: Constructions Adapter
⊕ _ MAR Condition Manthing Des ⊕ Mar News Suppli Device ⊕ Mar Programmable Logic Controller
Brogge Salety Discrete I/O Device Brogge Salety Discrete I/O Device Parameter (192.168.250.1) Brogge Salety Network: Controller
Er man Lonation Kontong U (b) Works Specific, Machine Visio Uplosing Parameter
Abot
U sage of Device Bandwidth
C Detal.
x Message Code Dele Description
and Lifeboollaring Televisian OMBOTOR BIG CD CBLogs, 19200024, 2 A. E., Milli

Structure - Network Configurator
<u>File Edit View N</u> etwork <u>D</u> evice ED <u>S</u> File <u>T</u> ools <u>O</u> ption <u>H</u> elp
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) ॐ 8 31 32 ♠ ♥ ♥ ■ # # # # # # # # #
Configurator
BeviceNet Hardware EtherNet/IP Hardware
Vendor MBON Concretion 192168.250.1 192168.250.2
CJ2M-EIP21 V680S-HMD66
Commications Adapter Network Configurator X
⊕ – 🚡 Power Supply Device ⊕ – 💑 Programmable Logic Controller 👔 Network upload was completed.
ter – Safety Discrete I/O Device
⊕ _ A Safety Network Controller ⊕ _ A Thermal Condition Monitoring D OK
🗄 – 💑 Vendor Specific, Machine Visio
Usage of Device Bandwidth
Detail
Message Code Date Description
MSG:0300 2023/06/14 14:56:48 Network upload was completed. MWAR:0208 2023/06/14 14:56:48 192.168:250.1 CJ/2M-EIP21 : This device has warning status. Please check the detail of warning via the "Device Monitor" function.
🔊 Hatilad - Network Configurator — 🗌 🗸
File Edit View Network Device EDS File Tools Option Help
□ ☞ 🖬 토 💂 🕸 (編 森) 📽 🐄 ቆ ቆ 📾 🕹 🔚 🛍 🗮 🖽 🛗 🖏
Contraction of the second
Retwork Lonhgurator
EtherNet/IP Hardware
GOMRDN Corporation 192168.250.1 192168.250.2 CJ2M-EIP21 V68025-HMD66 GOMRDN Microscan Systems Inc. I
e-@ DeviceType20.1
Br-∰ Programmable Logic Controller Br-∰ Safety Discrete I/O Device
a - 品 Safety Laser Scanner
an
Usage of Device Bandwidth
Detail
Message Code Date Description
Cuccrutor (14) 14:35:46 Network Upload was completed. WAR:0208 2023/06/14 14:56:48 192:168:250.1 CJ2M-EIP21: This device has warning status. Please check the detail of warning via the "Device Monitor" function.
3

Böylelikle PLC nin IP adresi 192.168.250.1 ve RFID kontrolcünün IP adresi 192.168.250.2 olacak şekilde gözlemlenir.

7- Daha sonra PLC den RFID kontrolcüye komut gönderebilmek için Tagler tanımlanır. Bunun için PLC nin üzerinde farenin sağ tuşuna basarak Parameter bölümünden Edit menüsüne girilir:

🖏 Network_Configurator - Network Configurator	-	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>N</u> etwork <u>D</u> evice ED <u>S</u> File <u>T</u> ools <u>O</u> ption <u>H</u> elp		
D 🗳 🖬 토 💂 柳 🍇 🕸 🖤 🎸 🚭 🌡 ங 📾 🗙 🏊 🏦 🇰 🏪 勉		
K 🖹 🖬 🛃 🍝 ♦ V 📓 K 💯 K 🖉 🕺 🕼 ½ K 🐨		
Network Configurator DeviceNet Hardware DeviceNet Hardware DeviceNet Hardware DeviceNet Hardware DeviceNet IP Hardware	;	

8- Input tagleri için D10100 adresi, output tagleri için ise D10000 adresi kullanılacaktır.

Bu işlemlerin tanıtımı aşağıdaki görsellerde belirtilmiştir:

Device Parameters : 1	92.168.250.1 CJ2M-EIP21	>
nnections Tag Sets		
Unregister Device List		
#	Product Name	
192.168.250.2	V680S-HMD66	
Connections : 0/32 (O	: 0, T : 0) 🔶 🐡	
Register Device List		
Product Name	192.168.250.1 CJ2M-EIP21 Variable Target Variable	
New Edit	Delete Edit All Change Target Node ID To,	/From File

nnections Tag Sets In - Consume Out - Produce			
Name	Over	Size Bit	ID
3			
New Edit Delete		Expand All	Collapse Al

1 Jags In - Consume Dut - Produce			×
Name	Over	Size	Bit
III D10100		40Byte	
Edit Tag			×
Name: D10120			
Size : 40 🖨 Byte	,		
Use Bit Data			-
Bit Size : Bit			
Over Load) Enable	4	
Regist	Close		
New Edit Dele	te		
Usage Count : 1/32 Total Size : 40/1280	OK	<	Cancel

9- Output Tag için ise, aşağıdaki görsellerdeki adımlar izlenir:

- Consume Out - Prod	lce	1 1		
Name		Over	Size	Bit
Edit Tag 3				×
Name : D10000)			ור
Size : 40	Byte	3		
Use Bit Data				-
Bit Size :	Bit			
Over Load	ble	Enable	5	
Reg	gist	Close		
New Edit	Dele	te		
rana Caumbr 17				
age count: 17	32	OK OK		Cance

Not: Data alanı olarak 40 Byte kullanılmıştır.

Network (Configurator	\times
	The new Tags will be registered as Tag set	ts.
	Yes No	

10-Ilgili taglerin kaydedilmesi için Connection menüsünden 2 numaralı butona basılarak RFID kontrolcü alt bölüme alınır ve Ok butonuna basılır.

Edit Device Parameters	: 192.168.250.1 CJ2M-EIP21	\times
Connections Tag Sets	3	
Unregister Device Lis	t	
#	Product Name	
Connections : 0/32	(O+0 T+0)	
Register Device List		
Product Name	192.168.250.1 CJ2M-EIP21 Variable Target Variable	
192.168.250.2 (#002) V	
<u>N</u> ew <u>E</u> di	Delete Edit All Change Target Node ID To/From	<u>F</u> ile
	3	
	ок	Cancel

11-Bu işlemden sonra yapılan ayarlar fare ile sürükle bırak yöntemi ile RFID kontrolcü

PLC nin üzerine taşınır:



12- Ekrana gelen ekranda aşağıdaki ilgili giriş ve çıkış tag adresleri seçilerek Ok butonuna

basılır:

192.168.250.2 V680S-HMD66 Edit Connection	×
It will add a connection configuration to originator device. Please configure the Tag Set each of originator device and target device	ð.
Connection I/O Type : Consume Data From/Produce Data To : 40	~
Originator Device	Target Device
Node Address : 192.168.250.1	Node Address : 192.168.250.2
Comment : CJ2M-EIP21	Comment : V680S-HMD66
Input Tag Set : Edit Tag Sets	Output Tag Set :
Connection Type : Point to Point connection	Input_110 - [40Byte]
Output Tag Set : Edit Tag Sets	Input Tag Set :
Connection Type : Point to Point connection	Output_100 - [40Byte]
Show Detail	OK Cancel

13- Daha sonra yapılan tüm ayarlar Download butonu yardımı ile PLC ye gönderilir. Bu işlem sırasıyla aşağıda gösterilmiştir:

🙀 Network_Configurator - Network Configurator	
<u>File Edit View N</u> etwork <u>D</u> evice EDS File <u>T</u> ools	Option <u>H</u> elp
] 🗅 📽 🔚 🚊 👼 🎶 🍇 🍇 😻 📚 🖑	🚭 🐰 🗈 💼 🗙 🏊 🔢 🏛 🗰 🖏 🍪
<u> </u> ∰ ≝ ₩ ₩ ♠ ♥ 🗸 🕋 # # #	_ <u>\$</u>
× C Ethe	erNet/IP_1
Network Configurator DeviceNet Hardware EtherNet/IP Hardware DeviceNet / IP Hardware	
OMRON Corporation	8.25 Parameter Wizard
B- DeviceTune	Monitor
Communications Adapter	Reset Open
	Maintenance Information
Power Supply Device	
	Register to other Device Download
🗈 📲 Safety Laser Scanner	External Data
and the state of	Cut
🖫 📕 Vendor Specific, Machine Visio	Сору
Network Configurator Downloading parameters to selected devices will st OK?	× tart.
Yes	io
Downloading Device Parameter (192.168.250.1)	Nutural Conferences
	INEtwork Configurator X
Downloading Parameter	Download of device parameter was completed.
Abort	ОК

14- Eğer haberleşme başarılı oldu ise, RFID kontrolcü üzerinde Run ışığı sabit yeşil renkte ve Link /ACT ışığı yeşil renkte yanıp sönmeye başlayacaktır. PLC ise Network Configurator programında CJ2M PLC ye sağ tıklanarak Monitor sekmesine gelindiğinde Status 1 sekmesinde mavi renk olarak görülür:

	History	Tag Status	Ethernet Information
Status 1	Status 2	Connection	Error History
Jnit Status			
Unit Error		🗹 On-Line	
Network Error		🗹 Tag Data Link	
Unit Memory E	Error	Change IP address	in Run mode
Com. Controlle	er Error	Enable User Specifi	ed Area
IP Address Du	uplicated	Multiple Switch ON	
LINK OFF Em	or	Error History	
Status Area L	ayout Error		
Vetwork Status			
Comparison E	mor	IP Address Table Er	ror
🗌 Tag Data Link	c Error	IP Router Table Erro	or
Invalid Param	eter	DNS Server Error	
I/O Refresh E	irror	Routing Table Error	
Tag Database	e Error	Ethernet Ext Config	Logical Error
🗹 All Tag Data l	Link	BOOTP Server Error	r
🗹 Tag Data Link	¢	SNTP Server Error	
Run FTP Ser	/er	Address mismatch	
Ethernet Link	Status	Nonvolatile Memory	Error
Ethernet Conf	ig Logical Error		
			Close

Tag'e Kod Tanımlama ve Okuma :

1- CX-Programmer üzerinde PLC ye online olduktan sonra PLC bölümünden Memory kısmına girilir:

B CJ_Konf - CX-Program	[NewPLC1 [Data Types]]				
🕑 File Edit View Inscr	PLC Program Simulation	Tools Windo	w Help		
□ 🛎 🖬 🔩 🖨 🗟	Auto Online	Ctrl+W	, 🛈 🤋 🐶 📝	S 🍰 🍓 🙇 🖥	
]	Operating Mode		<u> </u>	単方「水	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Monitor			\$ \$ ▶ ■ 8	目標
]] 彝 彝 国 鲁 本 %)	🔛 Compile <u>A</u> ll PLC Program	s F7			
	Program Chec <u>k</u> Options		Data Type	Array Size	Comm
⊡ॡ NewProject	Program Assignmen <u>t</u> s				
NewPLC1[CJ2M] Ru	Memory Allocation		•		
Data Types			_		
Symbols	Transfer		•		
IO Table and Uni	<u>P</u> artial Transfer		•		
Settings	<u>P</u> rotection		•		
Memory card	<u>Clear All Memory Areas</u>				
Error log			Information		
PLC Clock				La Catal	
Memory	Change Wodel		I I/O lable and U	init Setup	
Programs	Change Comm <u>u</u> nication	Settings	Settings		
□ See NewProgram	ا لايب Data Trace		Memory Card		
Symbols	Time Chart Monitoring		Memo <u>r</u> y Casse	tte/DM	
	Force		Reset CP1/CP2	Built-in Ethernet Po	ort
END	Cat .		Error Log		
	<u> 2</u> ct		3 <u>x</u> pansion Instr	ructions	
			Memory		
			Clock		_
			Cycle Time		
			Synchronous O	perat <u>i</u> on Status	
1					_

2- Daha sonra adres alanımız D alanı olduğu için D alanı seçilir:



3- Alınacak değerlerin Hexadecimal formatında alınacağı için format hexadecimal seçilir:

📠 PLC Memor	y - NewPLC1 - D			
File Edit Viev	v Grid Online \	Window Help		
2 3 10 2 3 10 2 3 10 2 3 10	Always On Top Toolbars Status Bar Data Area WorkSpa	ice		
→x [†] S	Display		> Binary	
CJ2M - CIC	Zoom In Zoom Out 100%	Ctrl+PgDn Ctrl-PgUp	Binary Coded Decimal Decimal Signed Decimal Floating point	
T	Resize Columns		Hexadecimal +8	
	Preferences	D00020 D00030	Text Double Floating Point Double Word	
→ H → W □ E E	-	D00040 D00050 D00060 D00070 D00080 D00090 D00100	Quad Word Text Bits Numeric Bits	

4- Daha sonra Online izleme moduna girilir. Bu adımlar sırasıyla aşağıda gösterilmiştir:

朣 PLC Memory - NewPl	LC1 - D					
File Edit View Grid	Online Window Help					
	Transfer To PLC Transfer From PLC Compare With PLC		<u>1</u>			
<u>a M</u> <u>B</u> <u>B</u> <u>R</u>	Monitor					
*X 10 2 10	Force	>				
	Set	>				
CI2M - CPU33	Start Address:	0	On	Off	SetValue	
A	ChangeOrder		ForceOn	ForceOff	ForceCanc	
	+0 D00000	+1 +2	+3 +4	4 +5 +6	+7 +8	+
Monitor Memory Areas	X Monitor Cancel					

- 🛹 D 10000 Start Address: On Off SetValue ChangeOrder ForceOn ForceOff ForceCanc +2 +3 +5 +8 +0 +1 +4 +6 +7 +9 D10000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 D10010 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 D10020 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 J: On/Off, Τ: ChangeOrder Ctrl+J: ForceOn, Ctrl+K: ForceOff, Ctrl+L: ForceCancel
- 5- Monitor ekranında iken "Start Address" kısmına 10000 adresimiz girilir:

6- D10000 alanının 1.biti yani D10001 adresinden tag ürününe adres tanımlamak için 0002 girilir:

	Start Address:		100	01	On		Off		SetValue				
	ChangeOrder				ForceOn		ForceOff		ForceCanc				
1		+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	*	
	D10000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	D10010	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	D10020	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		

Value	ј ОК	Value	ок
Paras	Cancel	0002	Cancel
0 to FFFF		0 to FFFF	

	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
D10000	0000	0002	0000	0000	0000	0000	0000	0000	0000	0000
D10010	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

7- D10000 adresinin 0 ve 3 numaralı bitleri aktif edilir:

	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
D10000	0000	0002	0000	0001	0000	0000	0000	0000	0000	0000
D10010	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
						_				
	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
D10000	+0 0001	+ 1 0002	+2 0000	+3 0001	+4 0000	+5 0000	+6 0000	+7 0000	+8 0000	+9 0000

	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
D10000	0001	0002	0000	0001	0000	0000	0000	0000	0000	0000
D10010	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10020	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10030	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10040	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10050	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10060	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10070	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10080	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10090	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D10100	0006	0000	0000	0000	1234	0000	0000	0000	0000	0000
D10110	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

8- Ardındna D10100 alanının dördüncü bitinden tage yazılan 1234 numarası okunmuş olunur: