

Rockwell EtherNet/IP (DF1)

Supported Series: Rockwell MicroLogix 1100, 1400, SLC5/05 Ethernet port.

MicroLogix1000, 1200, 1500, SLC 5/03, 5/04 with 1761-NET-ENI

Website: <http://www.ab.com>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Allen-Bradley EtherNet/IP (DF1)		
PLC I/F	Ethernet		
Port no.	44818		
HMI sta. no.	0		
PLC sta. no.	1		

PLC Setting:

Communication mode	Port Setting: 10/100 Mbps Full Duplex/Half Duplex
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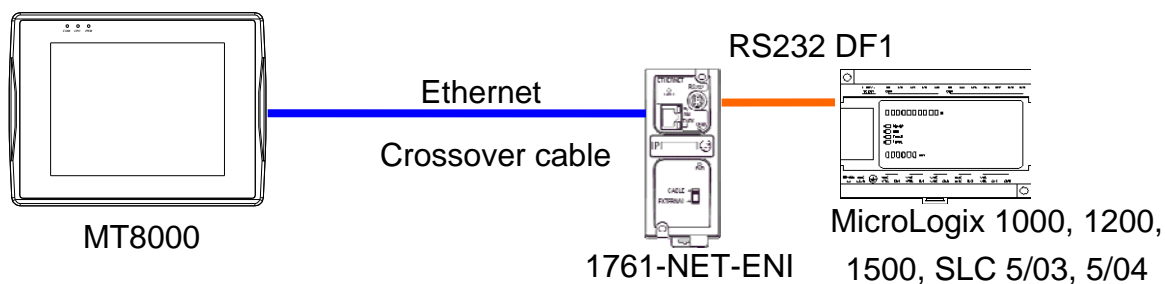
Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I1	DDDdd	0 ~ 25515	Input (I)
B	O0	DDDdd	0 ~ 25515	Output (O)
B	B3	DDDdd	0 ~ 25515	Bit data file (B3)
B	S_Bit	DDDDDDdd	0 ~ 25525515	Status file
B	Bfn	FFFDDDdd	0 ~ 25525515	Bit data file (B3, 10 ~ 254)
B	NfnBit	FFFDDDdd	0 ~ 25525515	Integer data file bit level (N7, 10 ~ 254)
W	T4SV	DDD	0 ~ 255	Timer Preset Value (T4)
W	T4PV	DDD	0 ~ 255	Timer Accumulator Value (T4)
W	C5SV	DDD	0 ~ 255	Counter Preset Value (C5)
W	C5PV	DDD	0 ~ 255	Counter Accumulator Value (C5)
W	TfnSV	FFFDDD	0 ~ 255255	
W	TfnPV	FFFDDD	0 ~ 255255	
W	CfnSV	FFFDDD	0 ~ 255255	




Bit/Word	Device type	Format	Range	Memo
W	CfnPV	FFFDDDD	0 ~ 255255	
W	S	DDD	0 ~ 255	
W	N7	DDD	0 ~ 255	Integer data file (N7)
W	Nfn	FFFDDDD	0 ~ 255255	Integer data file (N7, 10 ~ 254)
DW (F)	F8	DDD	0 ~ 255	Floating point data file (F8)
DW (F)	Ffn	FFFDDDD	0 ~ 255255	Floating point data file (F8, 10 ~ 254)
DW	Lfn	FFFDDDD	0 ~ 255255	Driver version 2.00 or later supported

Wiring Diagram:

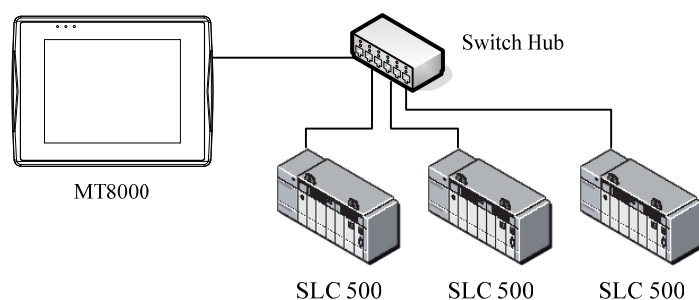
Direct connect (crossover cable):




HMI RJ45 Male	Wire Color	PLC RJ45 Male
1 TX+	White/Orange	3 RX+
2 TX-	Orange	6 RX-
3 RX+	White/Green	1 TX+
4 BD4+	Blue	4 BD4+
5 BD4-	White/Blue	5 BD4-
6 RX-	Green	2 TX-
7 BD3+	White/Brown	7 BD3+
8 BD3-	Brown	8 BD3-

Through a hub:



HMI RJ45 Male	Wire Color	PLC RJ45 Male
1 TX+	White/Orange	1 TX+
2 TX-	Orange	2 TX-
3 RX+	White/Green	3 RX+
4 BD4+	Blue	4 BD4+
5 BD4-	White/Blue	5 BD4-
6 RX-	Green	6 RX-
7 BD3+	White/Brown	7 BD3+
8 BD3-	Brown	8 BD3-



The bottom part of the table includes a visual representation of the RJ45 connection. It shows a close-up of the RJ45 male connector on the left, a network cable in the center, and another RJ45 male connector on the right. The pins on the connectors are numbered 1 through 8.

Driver Version:

Version	Date	Description
V2.00	Dec/21/2009	Add Lfn register.