

SIEMENS S7/300 Ethernet

Siemens S7/300 Ethernet Series PLC

<http://www.ad.siemens.com>

HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Siemens S7/300 (Ethernet)		Must match the PLC's port setting.
Com port	Ethernet		Must match the PLC's port setting.
Port no.	102		Must match the PLC's port setting.
PLC station no.	1	0-31	Must match the PLC's port setting.

Device address:

Bit/Word	Device Type	Format	Range	Memo
B	I	ddd(o)	0-40957	Input (I)
B	Q	ddd(o)	0-40957	Output (O)
B	M	ddd(o)	0-40957	Bit Memory
B	DB0Bit-DB99Bit	ddd(o)	0-81927	Data register bit
W	DB0-DB99	ddd	0-8192	Data register(must be even)
W	IW	ddd	0-4095	Input (I)
W	QW	ddd	0-4095	Output (O)
W	MW	ddd	0-4095	Bit Memory
W	DBn	fffddd	fff:0-255, dddd:0-8192	Data register(must be even)
DW	DBDn	fffddd	fff:0-255, dddd:0-8192	Data register double word (must be multiple of 4)

* Double word and Floating point value must use DBDn device type.

Wiring diagram:

MT8000 Ethernet RJ45 Wire color

Ethernet Hub or Switch RJ45

1	TX+	White/Orang		1	RX+
2	TX-	Orange		2	RX-
3	RX+	White/Green		3	TX+
4	BD4+	Blue		4	BD4+
5	BD4-	White/Blue		5	BD4-
6	RX-	Green		6	TX-
7	BD3+	White/Brow		7	BD3+
8	BD3-	Brown		8	BD3-



1 8 RJ45 connector

Ethernet: Direct connect (crossover cable)

MT8000 Ethernet RJ45 Wire color

Ethernet Device RJ45

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-