

## Rockwell DF1 (BCC)

Supported Series: Rockwell MicroLogix 1000, 1100, 1200, 1400, 1500, SLC 5/01, 5/02, 5/03, 5/04, 5/05.

Website: <https://www.rockwellautomation.com/>

Note: Allen-Bradley DF1 (BCC) and Allen-Bradley DF1 are the same; the only difference is the use of BCC checksum.

### HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Rockwell DF1 (BCC)		
PLC I/F	RS232		
Baud rate	19200	9600, 19200, 38400	
Data bits	8	8	
Parity	None	Even, Odd, None	
Stop bits	1	1	
HMI sta. no.	0		
PLC sta. no.	1	1-31	

### PLC Setting:

Communication mode	DF1 Full Duplex protocol 19200, None, 8, 1 (default) Error Check: BCC
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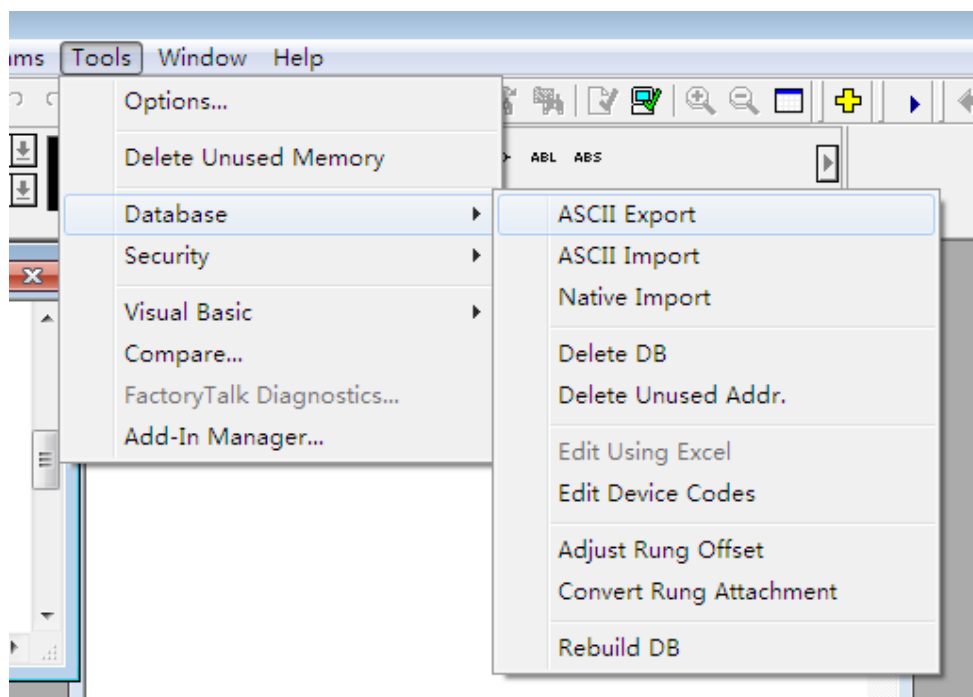
### Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I1	DDDdd	0 ~ 25515	Input (I)
B	O0	DDDdd	0 ~ 25515	Output (O)
B	I1n_Bit	SSEEd	0 ~ 303115	SS: slot, EE: sub element, dd:bit
B	O0n_Bit	SSEEd	0 ~ 303115	SS: slot, EE: sub element, dd:bit
B	B3	DDDdd	0 ~ 25515	Bit data file (B3)
B	B10 ~ 13	DDDdd	0 ~ 25515	Bit data file (B10 ~ 13)
B	S_Bit	DDDdd	0 ~ 25515	Status (S) bit level
B	Lfn_Bit	FFFDDDDdd	0 ~ 25525531	Long (Bit)
B	Bfn	FFFDDDDdd	0 ~ 25525515	Bit data file (B3, 10 ~ 254)
B	NfnBit	FFFDDDDdd	0 ~ 25525515	Integer data file bit level (N7, 10 ~ 254)

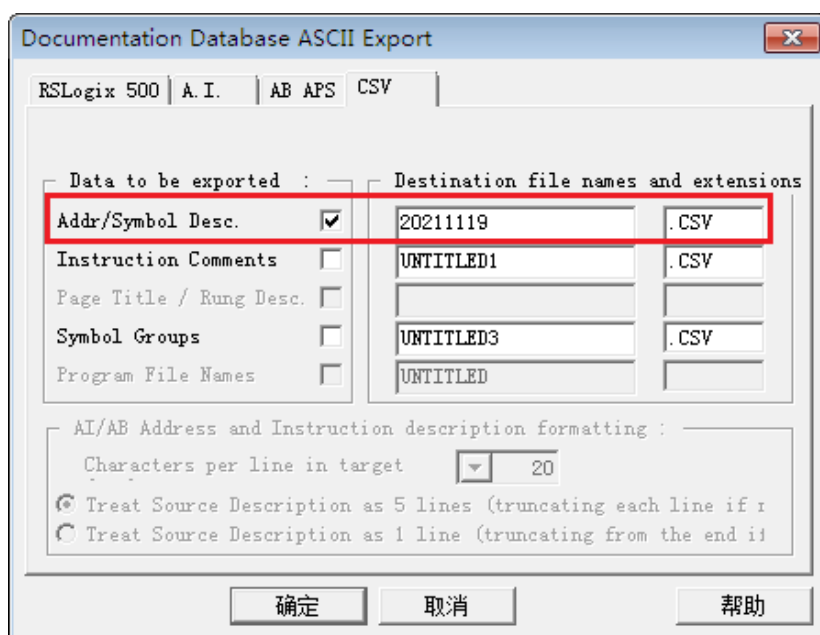
Bit/Word	Device type	Format	Range	Memo
W	I1n	SSEE	0 ~ 3031	SS: slot, EE: sub element
W	O0n	SSEE	0 ~ 3031	SS: slot, EE: sub element
W	T4SV	DDD	0 ~ 255	Timer Preset Value (T4)
W	T4PV	DDD	0 ~ 255	Timer Accumulator Value (T4)
W	C5SV	DDD	0 ~ 255	Counter Preset Value (C5)
W	C5PV	DDD	0 ~ 255	Counter Accumulator Value (C5)
W	TfnSV	FFFDDD	0 ~ 255255	Timer Preset Value
W	TfnPV	FFFDDD	0 ~ 255255	Timer Accumulator Value
W	CfnSV	FFFDDD	0 ~ 255255	Counter Preset Value
W	CfnPV	FFFDDD	0 ~ 255255	Counter Accumulator Value
W	N7	DDD	0 ~ 255	Integer data file (N7)
W	N10~15	DDD	0 ~ 255	Integer data file (N10 ~ 15)
W	Nfn	FFFDDD	0 ~ 255255	Integer data file (N7, 10 ~ 254)
W	S	DDD	0 ~ 255	Status (S)
DW (F)	F8	DDD	0 ~ 255	Floating point data file (F8)
DW (F)	Ffn	FFFDDD	0 ~ 255255	Floating point data file
DW	Lfn	FFFDDD	0 ~ 255255	Long
W	Bfn_Word	FFFDDD	0 ~ 255255	Bit data file (Word)
W	STfn	DDD.DDD.DD	0 ~ 255.255.40	File no.Element no.Data no.

## Import Tags:

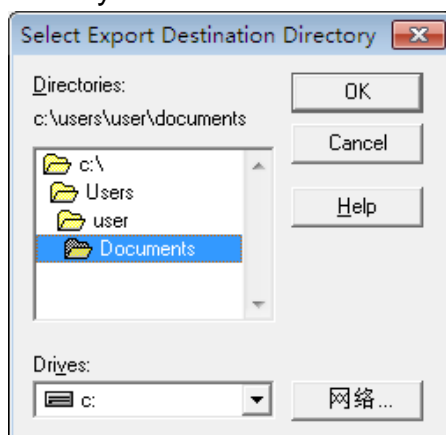
1. In the RSLogix 500 software, Tools -> Database -> ASCII Export



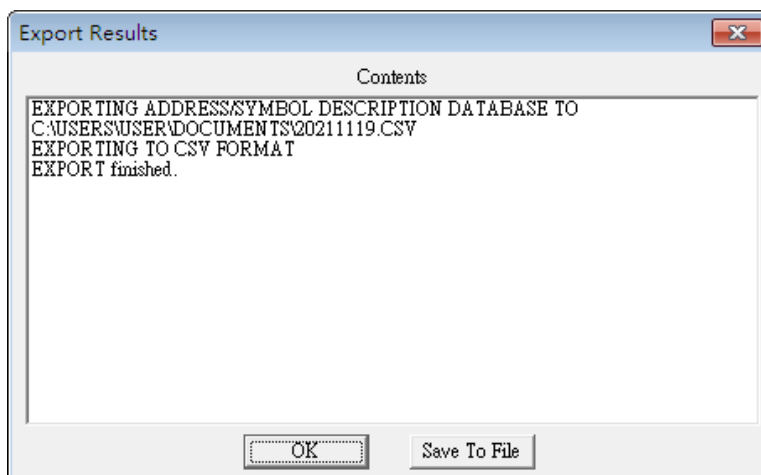
2. Select the csv tab, Add/Symbol Desc. and enter the destination file names.



3. Select export destination directory.

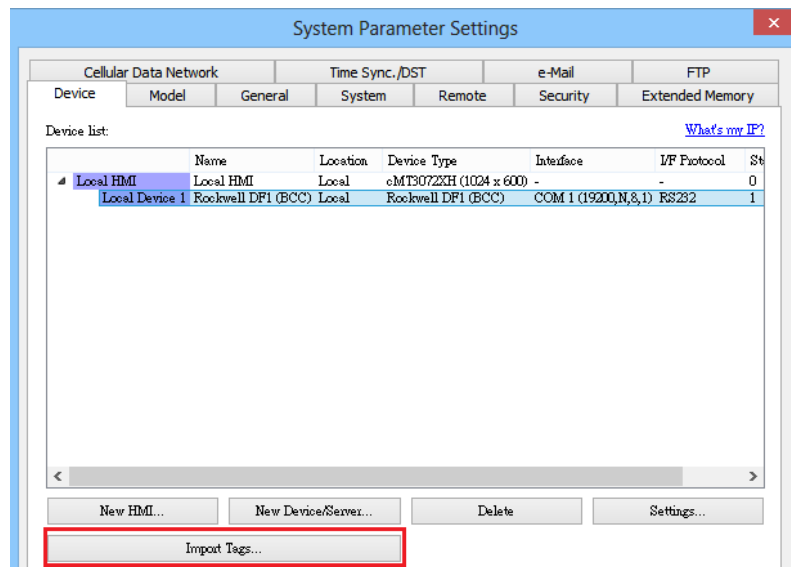


4. Export Result

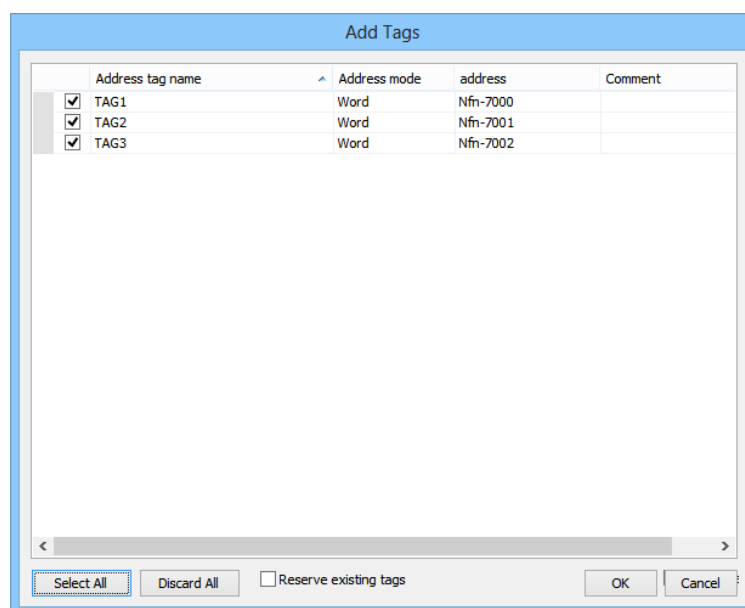


## 5. EasyBuilderPro -> System Parameter -> Device

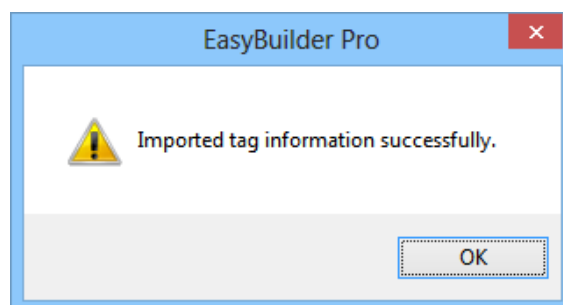
Create **[Rockwell DF1 (BCC)]** driver, click **[Import Tags]**, select the csv file the user wants to import.



## 6. Select the tag that the user wants to import.



## 7. Imported tag information successfully.



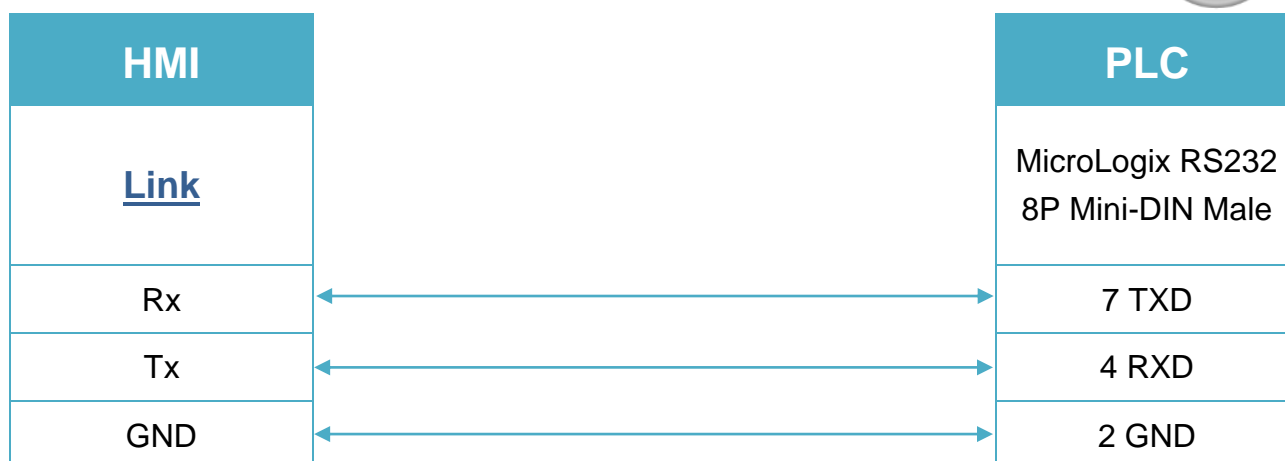
## Wiring Diagram:

### Diagram 1

**RS-232** (9P D-Sub to 8P Mini-DIN: MicroLogix 1000, 1100, 1200, 1400, 1500)

The serial port pin assignments may vary between HMI models, please click the following link for more information.

**The following is the view from the soldering point of a connector.**



### Diagram 2

**RS-232** (9P D-Sub to 9P D-Sub: SLC5/03, 04, 05 CH0)

The serial port pin assignments may vary between HMI models, please click the following link for more information.

