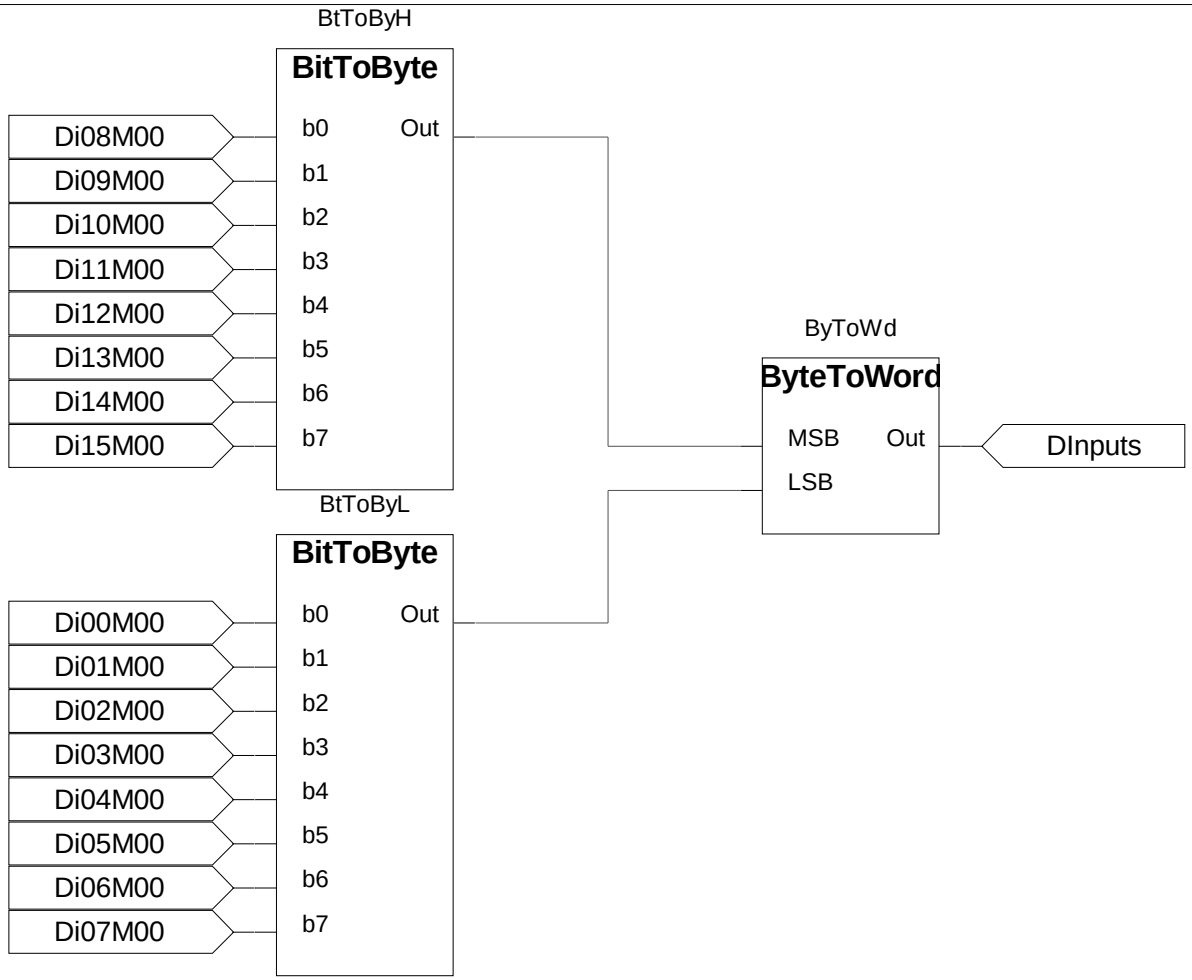
```
VAR_GLOBAL
Do00M00 AT %QX0.0 : BOOL; (* Output 00 module 00 *)
Do01M00 AT %QX0.1 : BOOL; (* Output 01 module 00 *)
Do02M00 AT %QX0.2 : BOOL; (* Output 02 module 00 *)
Do03M00 AT %QX0.3 : BOOL; (* Output 03 module 00 *)
Do04M00 AT %QX0.4 : BOOL; (* Output 04 module 00 *)
Do05M00 AT %QX0.5 : BOOL; (* Output 05 module 00 *)
Do06M00 AT %QX0.6 : BOOL; (* Output 06 module 00 *)
Do07M00 AT %QX0.7 : BOOL; (* Output 07 module 00 *)
Do08M00 AT %QX0.8 : BOOL; (* Output 08 module 00 *)
Do09M00 AT %QX0.9 : BOOL; (* Output 09 module 00 *)
Do10M00 AT %QX0.10 : BOOL; (* Output 10 module 00 *)
Do11M00 AT %QX0.11 : BOOL; (* Output 11 module 00 *)
Do12M00 AT %QX0.12 : BOOL; (* Output 12 module 00 *)
Do13M00 AT %QX0.13 : BOOL; (* Output 13 module 00 *)
Do14M00 AT %QX0.14 : BOOL; (* Output 14 module 00 *)
Do15M00 AT %QX0.15 : BOOL; (* Output 15 module 00 *)
Di00M00 AT %IX0.0 : BOOL; (* Input 00 module 00 *)
Di01M00 AT %IX0.1 : BOOL; (* Input 01 module 00 *)
Di02M00 AT %IX0.2 : BOOL; (* Input 02 module 00 *)
Di03M00 AT %IX0.3 : BOOL; (* Input 03 module 00 *)
Di04M00 AT %IX0.4 : BOOL; (* Input 04 module 00 *)
Di05M00 AT %IX0.5 : BOOL; (* Input 05 module 00 *)
Di06M00 AT %IX0.6 : BOOL; (* Input 06 module 00 *)
Di07M00 AT %IX0.7 : BOOL; (* Input 07 module 00 *)
Di08M00 AT %IX0.8 : BOOL; (* Input 08 module 00 *)
Di09M00 AT %IX0.9 : BOOL; (* Input 09 module 00 *)
Di10M00 AT %IX0.10 : BOOL; (* Input 10 module 00 *)
Di11M00 AT %IX0.11 : BOOL; (* Input 11 module 00 *)
Di12M00 AT %IX0.12 : BOOL; (* Input 12 module 00 *)
Di13M00 AT %IX0.13 : BOOL; (* Input 13 module 00 *)
Di14M00 AT %IX0.14 : BOOL; (* Input 14 module 00 *)
Di15M00 AT %IX0.15 : BOOL; (* Input 15 module 00 *)
DInputs AT %MW100.16 : UINT; (* Digital inputs *)
DOutputs AT %MW100.18 : UINT; (* Digital outputs *)
END_VAR
```

PROGRAM IOManagement

```
VAR
BtToByH : BitToByte; (* Bits to byte FB *)
BtToByL : BitToByte; (* Bits to byte FB *)
ByToWd : ByteToWord; (* Byte to word FB *)
WdToBy : WordToByte; (* Word to byte FB *)
ByToBtL : ByteToBit; (* Byte to bit FB *)
ByToBtH : ByteToBit; (* Byte to bit FB *)
END_VAR
```

1



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	PROGRAM : IOManagement	
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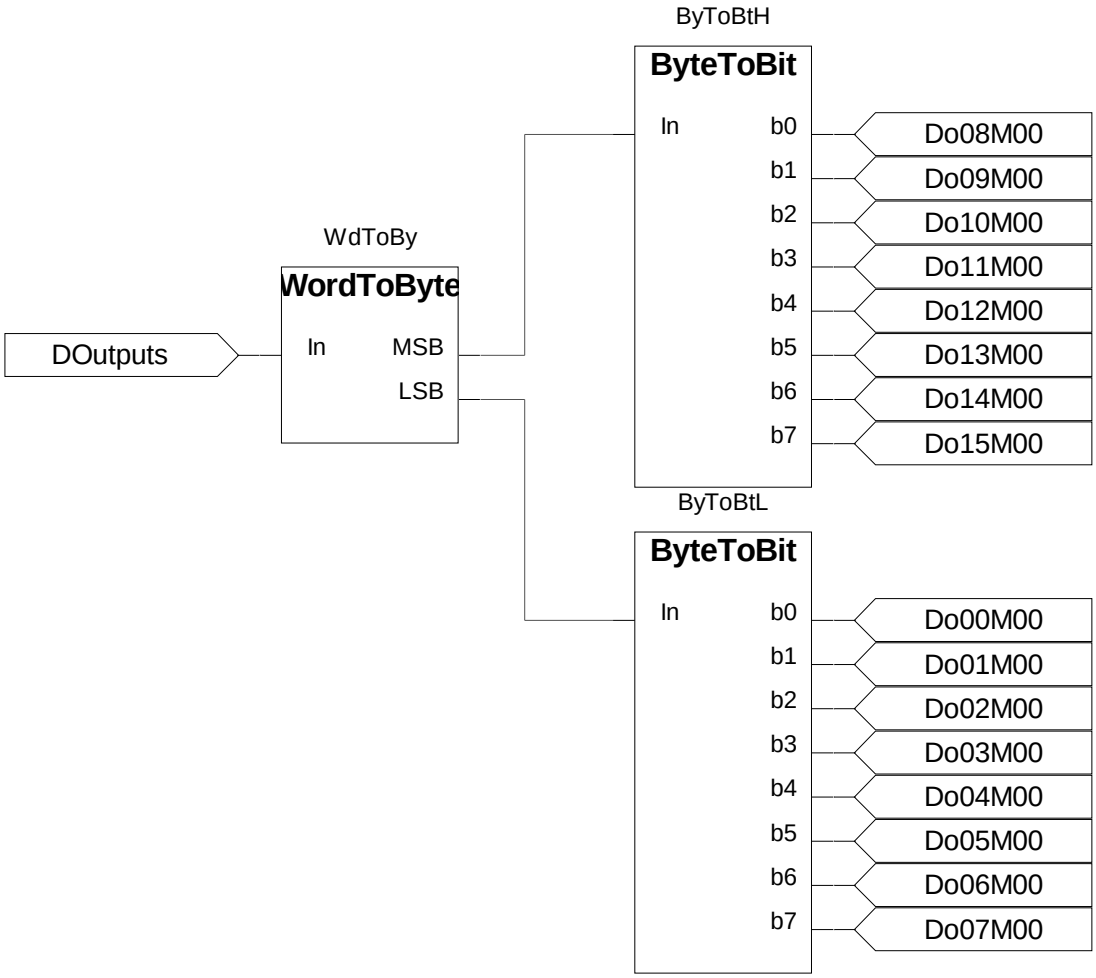

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	PROGRAM : IOManagement	
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FUNCTION_BLOCK SetSMode

(SFR054B000) Set the serial communication mode
ENCRYPTED CODE

```
VAR_INPUT
Fp : FILEP;
Baudrate : UDINT; (* Baudrate *)
Parity : STRING[ 1 ]; (* Parity type *)
DataBits : USINT; (* Nr of data bits *)
StopBits : USINT; (* Nr of stop bits *)
DTRManagement : USINT; (* DTR management type *)
DTRComplement : BOOL; (* Complement the DTR signal *)
EchoFlush : BOOL; (* Flush the echo *)
DTROnTime : UINT; (* DTR On wait time *)
DTROffTime : UINT; (* DTR Off wait time *)
END_VAR

VAR_OUTPUT
Done : BOOL; (* Execution done *)
Fault : BOOL; (* Execution fault *)
END_VAR
```

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	Project : DIOManage	
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FUNCTION_BLOCK ByteToBit

(SFR054B000) Splits BYTE variable into 8 BOOL
ENCRYPTED CODE

```
VAR_INPUT
In : BYTE; (* Input data *)
END_VAR

VAR_OUTPUT
b0 : BOOL; (* Bit 0 result *)
b1 : BOOL; (* Bit 1 result *)
b2 : BOOL; (* Bit 2 result *)
b3 : BOOL; (* Bit 3 result *)
b4 : BOOL; (* Bit 4 result *)
b5 : BOOL; (* Bit 5 result *)
b6 : BOOL; (* Bit 6 result *)
b7 : BOOL; (* Bit 7 result *)
END_VAR
```

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	Project : DIOManage	
	FUNCTION BLOCK : ByteToBit	
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FUNCTION_BLOCK BitToByte

(SFR054B000) Merges 8 BOOL variables into a BYTE
ENCRYPTED CODE

```
VAR_INPUT
b0 : BOOL;
b1 : BOOL;
b2 : BOOL;
b3 : BOOL;
b4 : BOOL;
b5 : BOOL;
b6 : BOOL;
b7 : BOOL;
END_VAR

VAR_OUTPUT
Out : BYTE; (* Function result *)
END_VAR
```

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	Project : DIOManage	
	FUNCTION BLOCK : BitToByte	
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FUNCTION_BLOCK ByteToWord

(SFR054B000) Merges 2 BYTE variables into a WORD
ENCRYPTED CODE

```
VAR_INPUT
MSB : BYTE; (* MSB Value *)
LSB : BYTE; (* LSB Value *)
END_VAR

VAR_OUTPUT
Out : WORD; (* Function result *)
END_VAR
```

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	Project : DIOManage	
	FUNCTION BLOCK : ByteToWord	
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FUNCTION_BLOCK WordToByte

(SFR054B000) Splits WORD variable into 2 BYTES
ENCRYPTED CODE

```
VAR_INPUT
In : WORD; (* Input data *)
END_VAR

VAR_OUTPUT
MSB : BYTE; (* MSB Result *)
LSB : BYTE; (* LSB Result *)
END_VAR
```

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	Project : DIOManage	
	FUNCTION BLOCK : WordToByte	
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