

4.1 Communication Ports

DVP-ES2/EX2/SA2/SE/SX2 offers 3 communication ports (COM1~COM3), and DVP-SS2 offers 2 COM ports (COM1~COM2). COM ports of the above models support DELTA Q-link communication format on HMI. Refresh rate of HMI can be increased by this function.

COM1: RS-232 communication port. COM1 can be used as master or slave and is the major COM port for PLC programming. (It is not applicable to DVP-SE.)

COM2: RS-485 communication port. COM2 can be used as master or slave.

COM3 (ES2/EX2/SA2/SE): RS-485 communication port. COM3 can be used as master or slave. (For DVP-ES2-C, COM3 is the CANopen port.)

COM3 (SX2): Conversion from the USB port to RS-232 port. COM3 can be used as slave only.

The 3 COM ports on the models mentioned above support Modbus ASCII or RTU communication format.

USB (COM1) (SE): USB communication port. It only can be used as a slave. The communication mode and format can not be modified.

Communication Format:

COM port Parameter	RS-232 (COM1)	RS-485 (COM2)	RS-485 (COM3)	RS-485 (SX2 COM3)
Baud rate	110~115200 bps	110~921000 bps		110~115200 bps
Data length	7~8bits			
Parity	Even / Odd / None parity check			
Length of stop bit	1~2 bits			
Register for Setting	D1036	D1120	D1109	
Retain communication format	M1138	M1120	M1136	
ASCII mode	Available for both Master/Slave			Available for Slave
RTU mode	Available for both Master/Slave			Available for Slave
ASCII/RTU mode selection	M1139	M1143	M1320	
Communication address of Slave	D1121		D1255	
Data length for access (ASCII)	100 registers			

	Content		
b0	Data Length	0: 7 data bits, 1: 8 data bits (RTU supports 8 data bits only)	
b1 b2	Parity bit	00: None 01: Odd 11: Even	
b3	Stop bits	0: 1 bit, 1: 2bits	
b4 b5 b6 b7	Baud rate	0001(H1):	110
		0010(H2):	150
		0011(H3):	300
		0100(H4):	600
		0101(H5):	1200
		0110(H6):	2400
		0111(H7):	4800
		1000(H8):	9600
		1001(H9):	19200
		1010(HA):	38400
		1011(HB):	57600
		1100(HC):	115200
		1101(HD):	500000 (COM2 / COM3)
		1110(HE):	31250 (COM2 / COM3)
		1111(HF):	921000 (COM2 / COM3)
b8	Select start bit	0: None	1: D1124
b9	Select the 1 st end bit	0: None	1: D1125
b10	Select the 2 nd end bit	0: None	1: D1126
b11~b15	Undefined		