

EFXQZP-01

User's manual

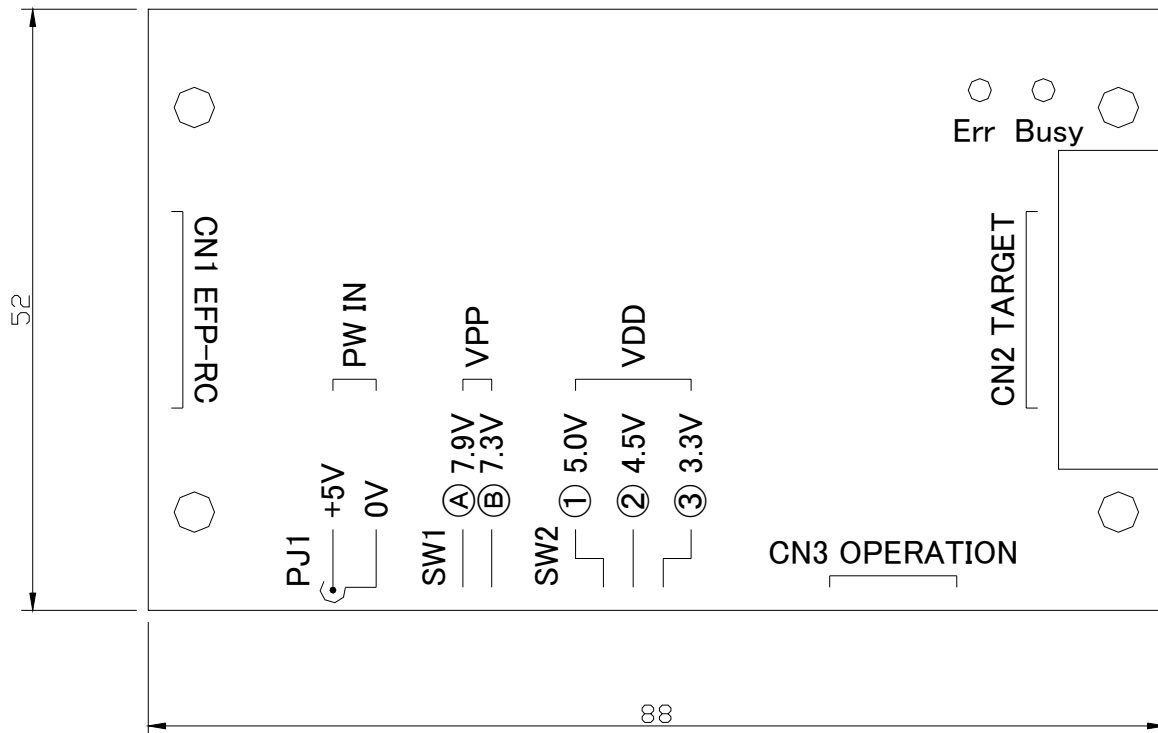
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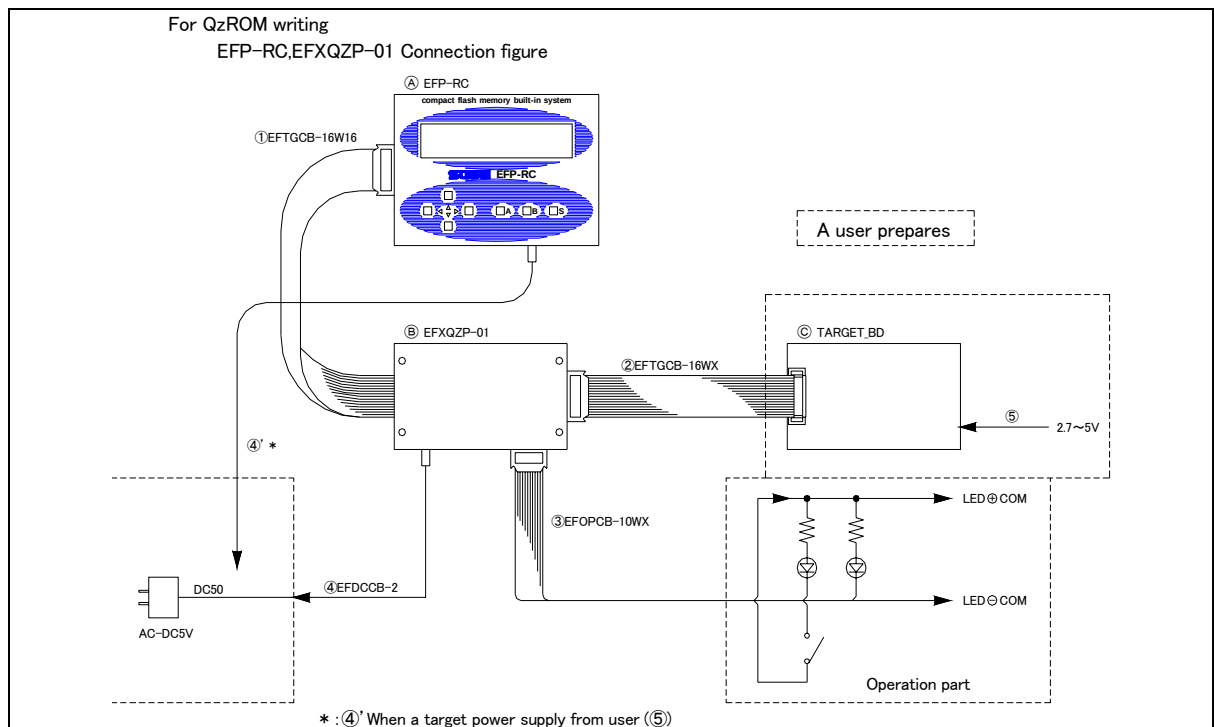
1. EFXQZP-01 Externals chart



Explanation of outline of each part

	Name	Outline
①	CN1	Connects with the target connector of EFP-RC.
②	CN2	Connects with the serial writing connector of the target Board.
③	CN3	Connects with the external operation part.
④	PJ1	1.3φ pin connector for power(DC5V) supply. Outside GND and inside 5V
⑤	SW1	VPP voltage setting. ① Vpp=7.9V (setting when QzROM is written) ② Vpp=7.3V (Do not usually use it)
⑥	SW2	VDD voltage setting (Please match it to the condition of MCU) : VDD=5.0V : VDD=4.5V : VDD=3.3V
⑦	Err_LED	Result of command execution. When not normally ending, it lights. (Turn it off by the following operation.)
⑧	Busy_LED	It lights while executing the command. (Turn it off by the following operation.)

2. EFP-RC Connecting cable.



2.1. General connection

- EFTGCB-16W16 Connects CN1 of EFXQZP-01 and target CN of EFP-RC.
- EFTGCB-16WX Connects CN2 of EFXQZP-01 and target board.
- EFOPCB-10WX Connects CN3 of EFXQZP-01 and external operation part.
- EFDCCB-02 Connects PJ1 of EFXQZP-01 and power-supply unit (DC5V).

2.2. Connection when supplying power to target board.

Same as 2.1 /

Same as 2.1 / However, it is a power supply in the target board. (2.7V-5.0V)

Same as 2.1 /

EFDCCB-02 / ' Connects Power-Jack of EFP-RC and Power-supply unit (DC5V).

3. Notes in handling

3.1. About the power supply input.

- 1: The power supply must use **【5V 500mA or more】**.
- 2: When the current of 100mA or more flows to the target board, it is necessary to supply power-supply (2.7V-5.0V) to the target board side.

3.2. About the method of connecting the target board.

Please refer to the following manual for the method of connecting the target board.

- Connector table of clause 5.
- Manual of EF1SRP-01U/S2 serial unit.
- MCU support documentation.

3.3. About the operating switch

The operating switch that can be connected with this board is START_SW.

As for START_SW, it is equal to 'S' key to EFP-RC.

- Please refer to the EFP-RC manual of operation for details.

4. About the operation method

SW1 : The VPP voltage is set. ① 7.3V ② **7.9V(this setting usually)**

SW2 : The VDD voltage is set. 5.0V 4.5V 3.3V

【Please give to the voltage of the target board additionally】

Err display : When the result of the command execution is not normal, it lights.

**【The same signal is output to CN3 in photocoupler
(When making an error: turn on)】**

Busy display : It lights while executing the command.

**【The same signal is output to CN3 in photocoupler
(It is executing it: turn on)】**

Start SW : Equivalence to function of EFP-RC 'S' key.
(short in GND: Turning on)

5. Connector table

5.1 CN1 EFP-RC connection connector

	Signal name	IN/OUT	Explanation
1	GND		
2	(N.C)		
3	T_VPP	Input	Target writing power supply input
4	T_VDD	Output	Target power supply output
5	T_VPP 2		Target writing power supply output 2
6	Error	Input	Error display signal
7	EX_Busy	Input	Busy display signal
8	T_PGM/OE	Input	Program writing reading pulse
9	T_SCLK	Input	Synchronous communications clock for target data transfer
10	T_TXD	Input	Serial transmission data for target
11	T_RXD	Output	Target serial receive data
12	T_Busy	Output	Target Busy signal
13	T_Start	Output	External start signal (CN3)
14	T_Reset	Input	Target reset control signal
15	(N.C)		
16	GND		

5.2 CN2 target board connection connector

	Signal name	IN/OUT	Explanation
1	GND *		
2	(N.C)		
3	T_VPP *	Output	Program writing power supply output
4	T_VDD *	Output	Target power supply output (or input)
5	T_VPP 2		Program writing power supply output 2
6	(N.C)		
7	(N.C)		
8	T_PGM/OE *	Output	Program writing reading pulse
	T_SCLK *	Output	Synchronous communications clock for target data transfer
10	T_TXD *	Output	Serial transmission data for target (RXD and connecting wires)
11	T_RXD *	Input	Serial receive data (TXD and connecting wires)
12	T_Busy	Input	Target Busy signal
13	(N.C)		
14	T_Reset *	Output	Target reset control signal
15	(N.C)		
16	GND *		

' * ' is attached to the signal used for QZROM writing.

(GND , T_VPP , T_VDD , T_PGM/OE , T_SCLK , SDA/T_TXD/T_RXD , T_Reset)

5.3 Operation Part Connector

	Signal name	IN/OUT	Explanation
1	EX_Busy	Output	Target Busy signal (ON:Com level Max50mA)
2	Com-	COM	
3	Error	Output	Error display signal (ON:Com level Max50mA)
4	Com-	COM	
5	GND		
6	GND		
7	(S.P1)	Input	
8	(S.P2)	Input	
9	Start	Input	Command start signal (ON:Com level)
10	GND		

* An output 1-2 and 3-4 are photo-coupler open collector outputs.

* An input 9-10 is short and is set to being turned on..

5.4 Power Supply Input Connector

	Signal name	IN/OUT	Explanation
Besides	0V	Input	0V input
Inside	Vin_Ext	Input	4.7V - 5. 5V Input

Change history

March 28, 2005 2 pages, 1st clause Externals chart & Explanation of outline
 Ⓐ Vpp=7.3V, Ⓑ Vpp=7.9V > Ⓐ Vpp=7.9V, Ⓑ Vpp=7.3V

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