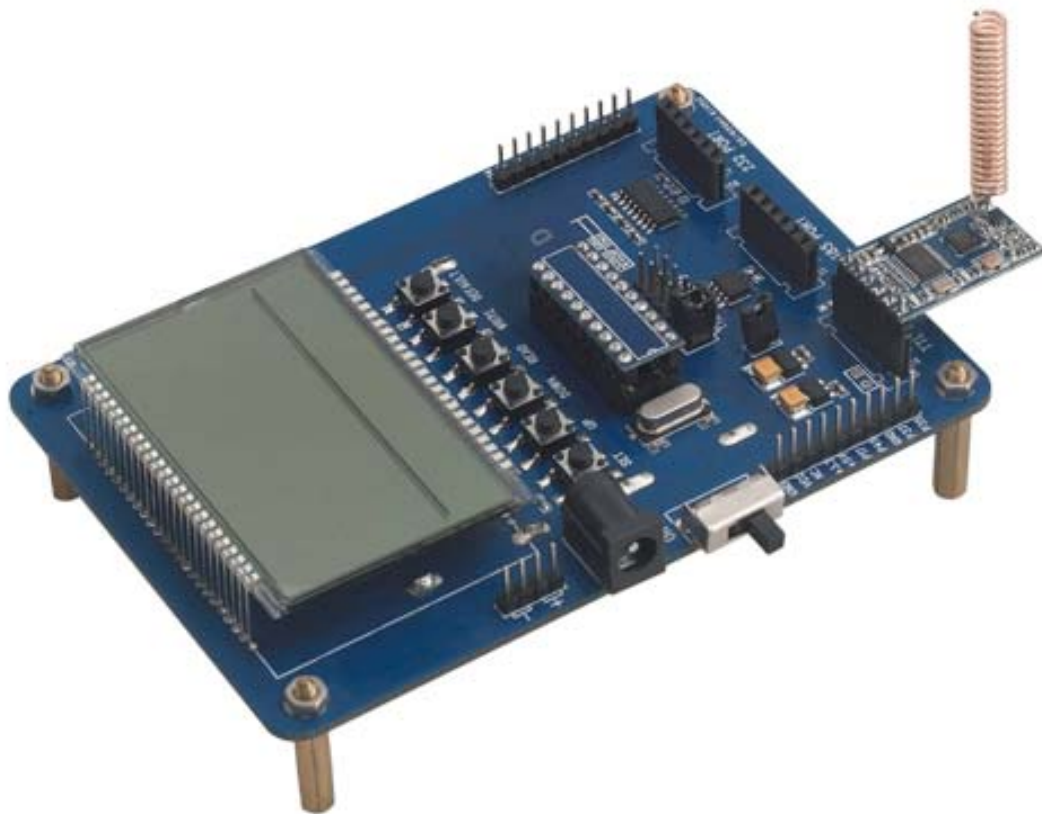
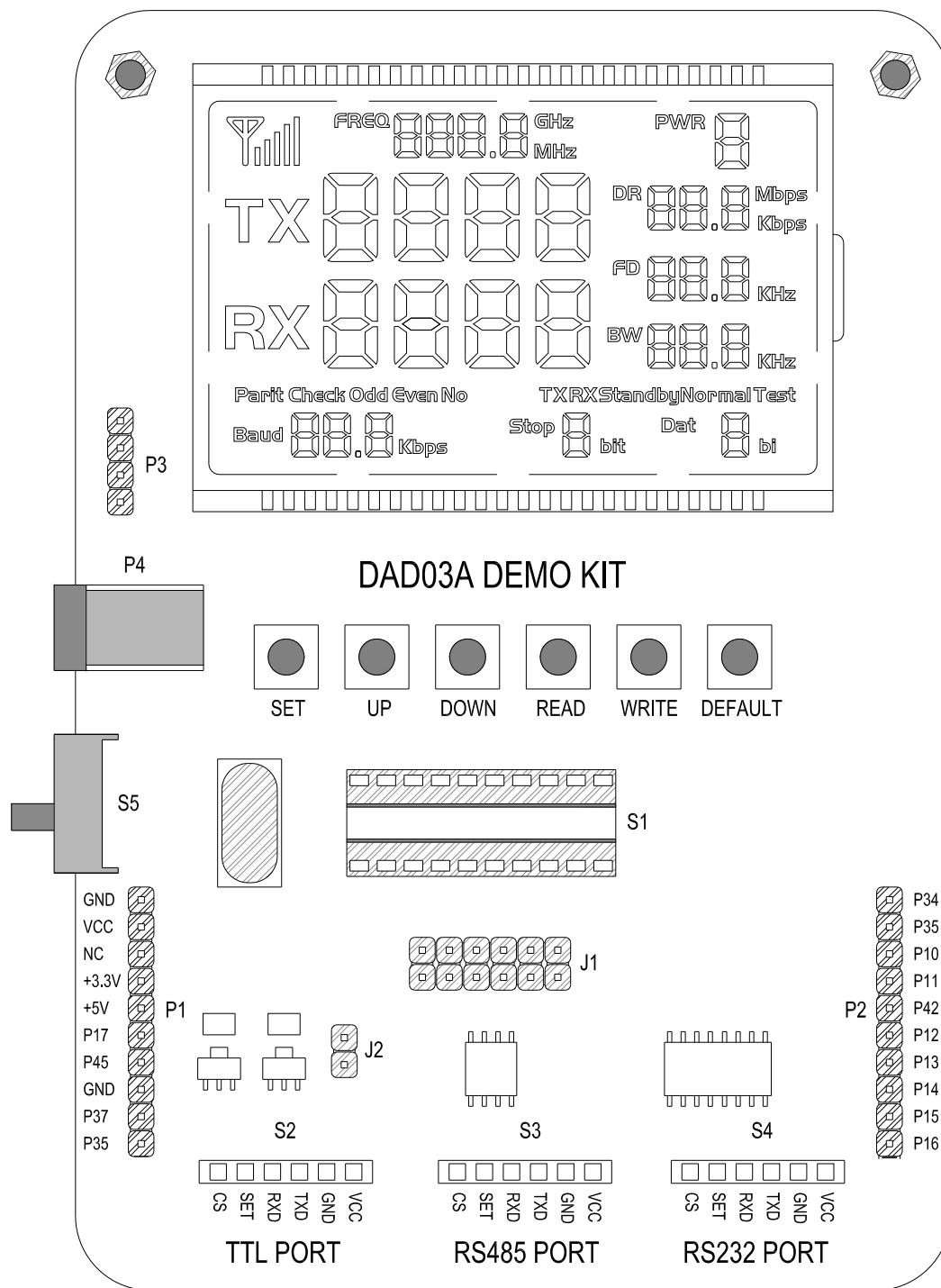

Operation Manual for Demo Kit DAD03A

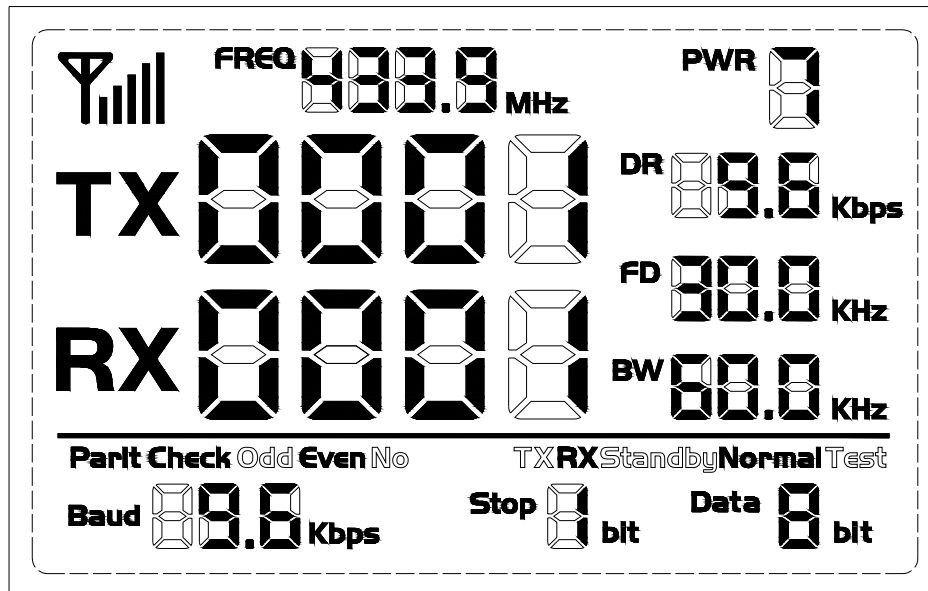
V1.01

The demo kit DAD03A is designed for low cost data transmission module DRF4432D20I. The kit mainly consists of LCD, Keypad, and MCU converter board. Users can change the center frequency, output power and data format through keypad and monitor related changes by LCD. The kit also includes TTL, RS232 and RS485 interface for different types of DRF4432D20I module. At present DORJI only provides TTL version and other interfaces of modules will be released in the near future. Users are welcome to visit our website for newest information.





1. LCD



Icon	Function
	Signal strength indication
FREQ	Center frequency; it is changed by times of 1MHz
PWR	Output power level; 0~7
TX	Number of data packages sent; 0000~FFFF
RX	Number of data packages received: 0000~FFFF
DR	RF FSK data rate; 1.2 ~ 38.4k bps
FD	Transmit frequency deviation; 30KHz
BW	Receive frequency bandwidth; 60KHz
Parit Check	Parity check; Odd, Even or No
Baud	Baud rate communicating with MCU
Mode	Working mode: Standby, normal and test
Stop	Stop bit; 0~1bit
Data	Data bit; 8~9 bits

2. KEYPAD

- 1) **SET:** This button is used to start the setting of parameters.
- 2) **UP:** After pressing SET button, users can use this button to increase the value of selected parameters.
- 3) **DOWN:** After pressing SET button, users can use this button to decrease the value of selected parameters.
- 4) **READ:** This button is used to read the parameters.
- 5) **WRITE:** It is used to write parameters. Since the SET button also can save the settings so this button is not so useful here.
- 6) **DEFAULT:** It is used to resume the default settings of demo kits.

3. SOCKET & JUMPER

Part Name	Part Type	Function
S1	Socket	MCU socket
S2	Socket	Socket for DRF4432D20I with TTL interface
S3	Socket	Socket for DRF4432D20I with TTL interface
S4	Socket	Socket for DRF4432D20I with TTL interface
S5	Switch	Power switch
P1,P2	Pin header	For top board of RF front-end modules
P3	Pin header	For power supply with pin header
P4	Socket	Power socket
J1	Jumper	Interface selection: TTL, RS232 or RS485.
J2	Jumper	For testing current purpose

4. POWPER SUPPLY

The kit works at 3.6~6.0V and the recommended working voltage is 5V. There are three groups of power inputs: P4 (DC socket), P3 (Pin header) and Battery socket on the back of board. Users only can choose one of them in use.

5. FUNCTION DISCRIPTION

When the kit is powered on, the LCD on board will show the default parameters for the first use or the settings of last operation. Users can press the SET button to start the setting of parameters and the character will be twinkled. Users can use UP or DOWN button to revise the parameters. After parameter is changed, users then press SET to change the next parameter. Please note that the interval between two operations should be less than 5s or else the kit regards the operation is finished and will reserve present changes.

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