The board is controlled by four buttons – PA, LNA, MODE, KBres

Buttons are located under the LCD and brought to the external plugs

The PA button switches on/off the bypass mode

The LNA button switches on/off the external LNA

The KBres button drops a ERROR states of PA and always move focus to the main menu

The MODE button switches types of information on the display

The long pushing of the MODE button transfers the controller to the settings menu

In the settings menu PA and LNA buttons working as relocation buttons between variables to the left or to the right

The long pushing of the MODE button in the settings menu writes the current variable to a non-volatile memory

Clicking of KBres going to exit from settings menu with no writing of the current variable

# MAIN menu description

Pi – input power

Po – output power

t\* - temperature, \* is ds18b20 number

RX or TX - standby or transmitting PA mode

PA:Off или PA:On - BYPASS or AMPLIFIER ON

LNA:On или LNA:Off external LNA ON or OFF

S – SWR

Ud - LDMOS voltage, V

I - LDMOS current, A

## SETTINGS menu variable description

Const: Pin calibration constant for input power measurement

Const: Pout calibration constant for output power measurement

Max: SWR maximum output SWR

Max: Pin maximum input power

Max: Pout maximum output power

Max: Current maximum LDMOS current

Max: Voltage maximum voltage supply for LDMOS

Max: Temperat. Maximum of temperature from any DS18B20 connected

Sequenc. Delay Delay between PA and LNA relay switching

Value: Temp1 First step of temperatute control

Value: Temp2 Second step of temperatute control

Value: Temp3 Third step of temperatute control

Value: Temp4 Fourth step of temperatute control

Value: PWM1 voltage for coolling FAN for first step of temperature control

Value: PWM2 voltage for coolling FAN for second step of temperature control

Value: PWM3 voltage for coolling FAN for third step of temperature control

Value: PWM4 voltage for coolling FAN for fourth step of temperature control

PWM=0 means 0v voltage supply to cooling FAN

PWM=255 means maximum voltage supply to cooling FAN

Exceeding of any MAX: values leads to turn ON protection and entering board to ERROR state

Exiting from ERROR state can be possible for two step - elimination of the reason and pushing Kbres

Button

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