

	V1.0
	20191108

APT32F172



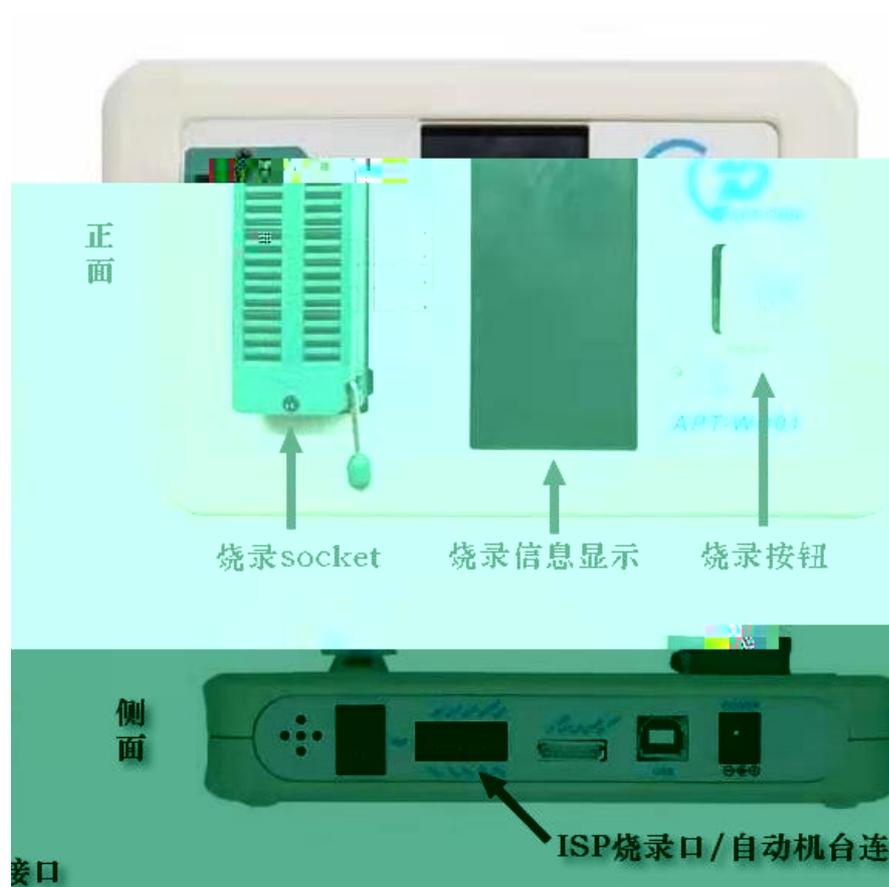


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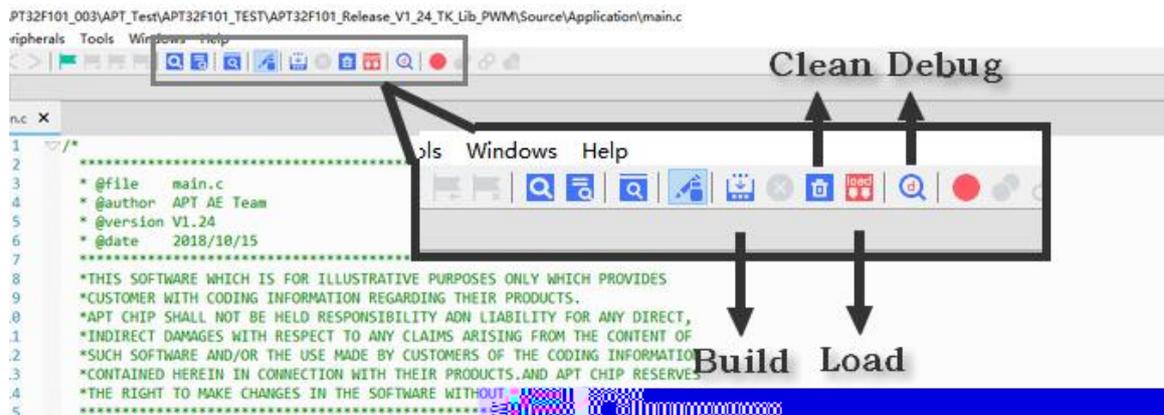
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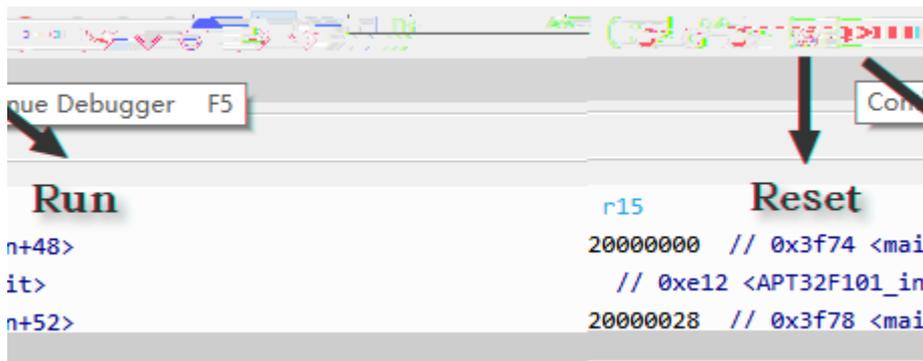
3.2 APT-DB101

3.3 APT-WD001



4



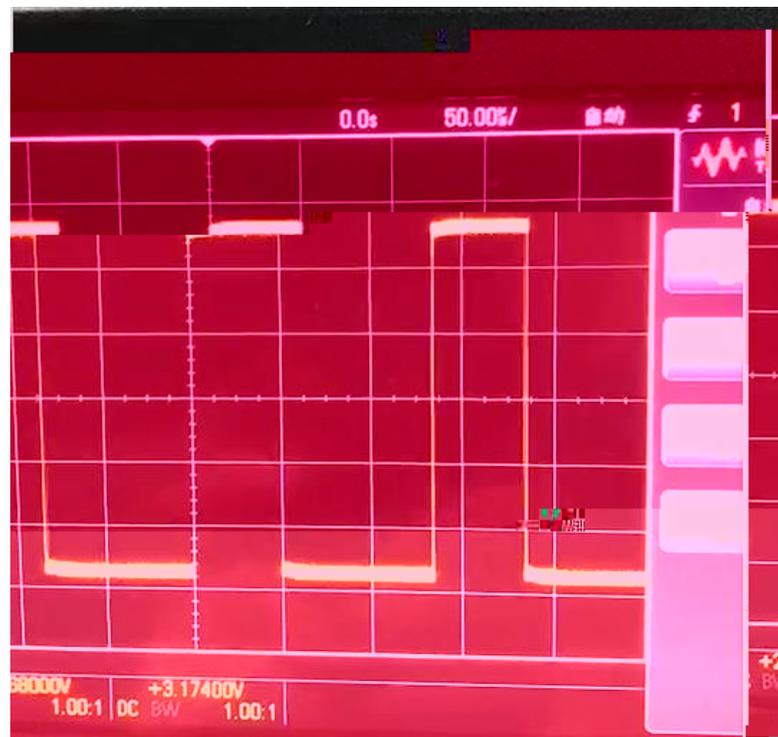


5

```

/*****/
//gtc Functions
//EntryParameter:NONE
//ReturnValue:NONE
/*****/
void GTC_CONFIG(void)
{
    GTC_RESET_VALUE(); //GTC 所有寄存器复位赋值
    GTC_SoftwareReset(); //GTC 软件复位
    GTC_IO_Init(GTC_IO_TXOUT , 0 ); //PWM输出初始化
    GTC_Configure(GTC_FIN_PCLK , 0 , 0 , Counter_Size_16BIT , 100 , 50); //TCCLK=sysclock/2^1/10, 20M-->1us
    GTC_ControlSet_Configure(GTC_ControlSet_REPEAT,ENABLE); //使能循环重复模式
    GTC_ControlSet_Configure(GTC_ControlSet_PWMEN,ENABLE); //使能PWM模式
    GTC_ControlSet_Configure(GTC_ControlSet_IDLEST,ENABLE); //Idle状态下输出高电平
    GTC_ControlSet_Configure(GTC_ControlSet_OUTST,ENABLE); //计数开始时输出高电平
    //GTC_ControlSet_Configure(GTC_ControlSet_CAPT_F,ENABLE); //下降沿捕捉使能
    //GTC_ControlSet_Configure(GTC_ControlSet_CAPT_TCAP,ENABLE); //捕捉输入使能
    //GTC_ConfigInterrupt_CMD(GTC_STARTI, ENABLE); //start中断使能
    //GTC_ConfigInterrupt_CMD(GTC_STOPI, ENABLE); //stop中断使能
    GTC_ConfigInterrupt_CMD(GTC_PSTARTI, ENABLE); //周期start中断使能
    //GTC_ConfigInterrupt_CMD(GTC_PENDI, ENABLE); //周期stop中断使能
    //GTC_ConfigInterrupt_CMD(GTC_MATI, ENABLE); //脉冲匹配中断使能
    //GTC_ConfigInterrupt_CMD(GTC_OVFI, ENABLE); //溢出中断使能
    //GTC_ConfigInterrupt_CMD(GTC_CAPTI, ENABLE); //捕捉中断使能
    GTC_Start(); //start GTC
    GTC_Int_Enable(); //使能GTC中断向量
}
    
```

```
int main(void)
{
    APT32F172_init();
    while(1)
    {
        // test_period
        delay_nms(1000);
        GTC_Set_Period(period_data,50);
        period_data++;
        if(period_data>=200)
        {
            period_data=100;
        }
        // test_duty
        delay_nms(1000);
        GTC_Set_Period(period_data,50);
        duty_data++;
        if(duty_data>=100)
        {
            duty_data=0;
        }
    }
}
```



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