

TCPDAQ Data Structure

typedef struct _AlarmInfo

//Alarm Event data structure

```
{
    u_cha      szIP[4];           //The IP address which cause the alarm change
    u_short    szDateTime[6];    //E.x 2001/09/23 10:12:34:567 (Year/Month/Day Hour:Minute:Second:mSecond)
    u_short    byChannel;       //The Channel of which cause the alarm change
    u_short    byAlarmType;     //0x00:AIO Low Alarm
                                //0x01:AIO High Alarm
                                //0x20:DIO Alarm
                                //0xF0:Connection Alarm
    u_short    byAlarmStatus;   //0:Alarm ON to OFF, 1:Alarm OFF to ON
    u_short    wValue;         //Alarm value.For DIO, this value could be "0" or "1" means that "ON" or "OFF"
                                //          For high or low alarm, this is the AIO value.
                                //          For connection lost, this value is '0'.
} _AlarmInfo;
```

typedef struct _StreamData

//Stream Event data structure

```
{
    u_char     szIP[4];           //The IP address which send the stream datae
    u_short    szDateTime[6];    //E.x [2001]/[09]/[23] [10]:[12]:[34] (Year/Month/Day Hour:Minute:Second)
    u_short    DIN;             //Digital input data (DI#0~DI#15)
    u_short    DOUT;           //Digital output data (DO#0~DO#15)
    u_short    wData[32];       //Digital input Counter (Each channel occupes 4 Byte)
} _StreamData;
```

typedef struct ModuleInfo

// Used For Scan_Online_Modules(..)

```
{
    u_char     szIP[4];           //IP address
    u_char     szGate[4];        //Gateway
    u_char     szMask[4];        //Submask
    u_char     szDHCP;           //DHCP status 01=enable, 00=disable
    u_char     szID;             //Module ID number
    u_char     szMacAddr[6];     //MAC address of module
    u_short    szModuleNo;       //Module name
    u_char     szBuffer[12];     //Buffer reserved for TCPDAQ.DLL
} ModuleInfo;
```

typedef struct ModuleData

//Used for function TCP_ReadAllDataFromModule (..)

```
{
    u_char     Din[16];          //Digital input data (DI#0~DI#15),available for EDAM9050/51/52
    u_char     Dout[16];         //Digital output data (DO#0~DO#15),available for EDAM9050/51/52/17/19
    u_char     DiLatch[16];      //Digital input latch status (DI#0~DI#15),available for EDAM9050/51/52
    long       DiCounter[16];    //Digital input counter value (DI#0~DI#15),available for EDAM9050/51/52
    double     AiNormalValue[16]; //Analog Input value(AI#0~AI#15),available for EDAM9015/17/19
    double     AiMaxValue[16];   //Analog maximum value(AI#0~AI#15),available for EDAM9015/17/19
    double     AiMinValue[16];   //Analog minimum value(AI#0~AI#15),available for EDAM9015/17/19
    u_char     AiHighAlarm[16];  //Analog high alarm status(AI#0~AI#15),available for EDAM9015/17/19
    u_char     AiLowAlarm[16];   //Analog low alarm status(AI#0~AI#15),available for EDAM9015/17/19
    u_char     AiChannelType[16]; //Analog channel Type, available for EDAM9015/17/19
    u_char     AiBurnOut[16];    //Analog channel burn out status,available for EDAM9019/15 only
    double     CJCTemperature ;  //Cold junction temperature,available for EDAM9019 only
} ModuleData;
```