TCPDAQ Data Structure

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