

Date	2015 / 07 / 06	SR#	1-2097356666
Category	■FAQ □SOP	Related OS	N/A
Abstract	ADAM-60XX_62XX_How to detect the connection situation of the module		
Keyword	.NET class library, Disconnection, Error Code,		
Related Product	ADAM-60XX, ADAM-62XX		

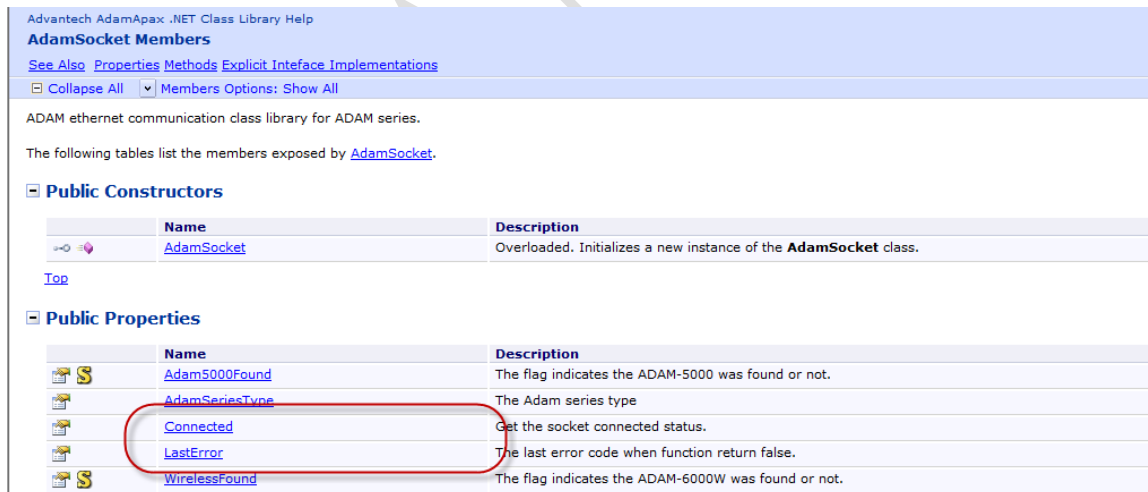
■ Problem Description:

This documentation tells the user how to use ADAM .NET class library to detect the connection or disconnect situation of the ADAM module with Ethernet interface.

■ Brief Solution- Step by Step:

When connecting to the Ethernet device, it's important for the controller to know the status of connection.

In the AdamSocket Members, we have two public properties called "Connected" and "LastError",



Advantech AdamApax .NET Class Library Help

AdamSocket Members

[See Also](#) [Properties](#) [Methods](#) [Explicit Interface Implementations](#)

[Collapse All](#) [Members Options: Show All](#)

ADAM ethernet communication class library for ADAM series.

The following tables list the members exposed by [AdamSocket](#).

Public Constructors

Name	Description
AdamSocket	Overloaded. Initializes a new instance of the AdamSocket class.

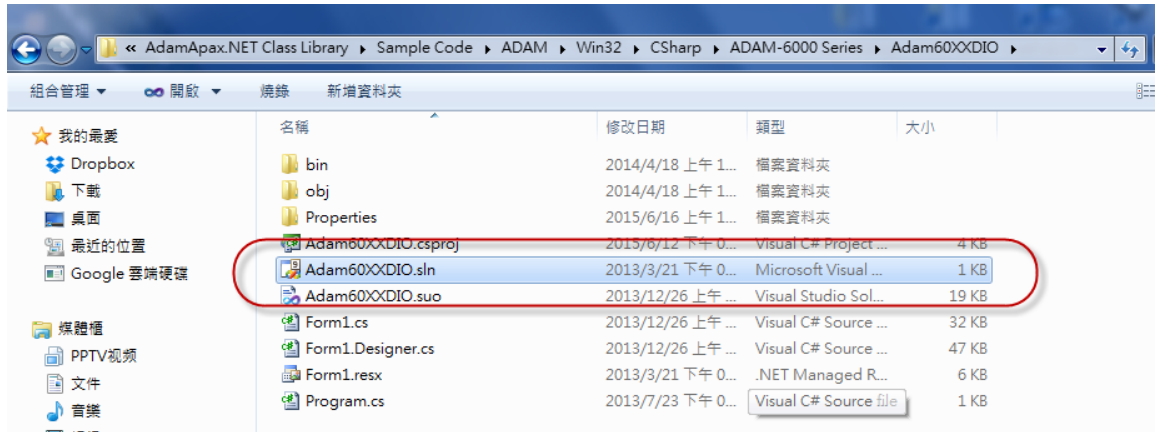
[Top](#)

Public Properties

Name	Description
Adam5000Found	The flag indicates the ADAM-5000 was found or not.
AdamSeriesType	The Adam series type
Connected	Get the socket connected status.
LastError	The last error code when function return false.
WirelessFound	The flag indicates the ADAM-6000W was found or not.

User can take advantage of these properties for the exception handling when the connection status of ADAM-6K or ADAM-62xx series end-device is abnormal.

Take our example program “Adam60XXDIO” as an example,



You can monitor the return value of “Connected” and “LastError”, and try to unplug the Ethernet cable manually and see the different return value.

```

}
else // was stoped
{
    if (adamModbus.Connect(m_szIP, ProtocolType.Tcp, m_iPort))
    {
        RefreshWDT();
        panelDIO.Enabled = true;
        m_iCount = 0;
        timer1.Enabled = true;
        buttonStart.Text = "Start";
        m_bStart = true; // starting flag
        btnApplyWDT.Enabled = true;
    }
}

```

adamModbus {Advantech.Adam.AdamSocket}

Member	Value
AdamSeriesType	Adam6000
Connected	false
LastError	No_Error

The user can refer to the following table for more information about the error code.

Member Name	Description
No_Error	No error
ComPort_Error	ComPort error
ComPort_Open_Fail	ComPort open fail
ComPort_Send_Fail	ComPort send fail
ComPort_Recv_Fail	ComPort receive fail
Socket_Null	Socket is null
Socket_Connect_Fail	Socket connect fail
Socket_Invalid_IP	Invalid IP
Socket_Send_Fail	Socket send fail
Socket_Recv_Fail	Socket send fail
Socket_Unknown	The error cannot be identified
Adam_Invalid_Head	Adam protocol response header is invalid
Adam_Invalid_End	Adam protocol response header is invalid
Adam_Invalid_Length	Adam protocol response length is invalid
Adam_Invalid_Data	Adam protocol response data is invalid, which causes the conversion fail
Adam_Invalid_Checksum	Adam protocol response checksum is invalid
Adam_Invalid_Param	The parameter is invalid
Adam_Invalid_Password	The password is invalid
Modbus_Invalid_CRC	Received modbus packet CRC is invalid
Modbus_Invalid_Length	Received modbus packet length is invalid
Modbus_Invalid_Serial	Serial number of received modbus packet is different from the sent one
Modbus_Exception	The modbus response with exception, this is the base
Modbus_Exception_IllegalFunction	The modbus response with exception 01
Modbus_Exception_IllegalDataAddress	The modbus response with exception 02
Modbus_Exception_IllegalDataValue	The modbus response with exception 03
Modbus_Exception_SlaveDeviceFailure	The modbus response with exception 04
Modbus_Exception_Acknowledge	The modbus response with exception 05
Modbus_Exception_SlaveDeviceBusy	The modbus response with exception 06
Modbus_Exception_NativeAcknowledge	The modbus response with exception 07
Modbus_Exception_MemoryParityError	The modbus response with exception 08
Command_Nack	Command returning nack
Command_Unknown	Command returning unknown or invalid expected data
API_Parameter_Error	Parameter error
Adam_Null_Error	Internal Null detected

