**Gateway Support Form for CDN36X and AS0136X**

**NOTE:** Please download, print, and fill out the below information (your contact information, the problem statement & unit ID info, and the tables). Please submit this completed form via the following website: www.mksinst.com/contact/CITService.aspx

MKS will contact you directly once the completed form is received. If this is an urgent issue please note that by writing “URGENT” at the top of the form.

The tables below should be completed using the class instance editor in RSNetworx (ie: must be configured for explicit messaging). This will help MKS understand the settings & condition of the Gateway and help in troubleshooting.

**Name:**

**Phone Number:**

**Email:**

**MKS Part Number:**

**Serial Number:**

**Firmware Revision:**

**Problem Statement:**

**Produced (Input) Size Bytes:**

**Consumed (Output) Size Bytes:**

**SERIAL STREAM OBJECT:**

**Class Code: 64 (0x40)**

**Instance: 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Instance**  **Attribute** | **Access** | **Name** | **Type** | **Description** | **Value** |
| 3 | Get | Baud Rate | UDINT | 300, 1200, 2400, 4800, 9600, 19200 bits per sec. |  |
| 4 | Get | Data Bits | USINT | 7, 8 |  |
| 5 | Get | Parity | USINT | 0 = no parity  1 = odd parity  2 = even parity  3 = mark  4 = space |  |
| 6 | Get | Stop Bits | USINT | 1, 2 |  |
| 7 | Get | Flow Control | USINT | 0 = none  1 = XON / XOFF  2 = CTS / RTS |  |
| 10 | Get | Delimiter Mode | USINT | Bit 0 – List mode  Bit 1 – Timeout mode  Bit 2 – Length mode |  |
| 11 | Get | Pre-Delimiter List | Short\_String | List mode – String of 1-9 bytes. |  |
| 12 | Get | Post-Delimiter List | Short\_String | List mode – String of 1-9 bytes. |  |
| 13 | Get | Packet Timeout | USINT | Timeout mode – delay between received bytes (1-255 msec). |  |
| 14 | Get | Packet Length | USINT | Length mode – Number of message bytes (1-128). |  |
| 15 | Get | Serial Status | USINT | Bit 0 = RX buffer overrun error  Bit 1 = RX parity error  Bit 4 = TX buffer overrun error  Bit 5 = TX parity error |  |
| 16 | Get | Byte Swap | USINT | 0 = disable  1 = enable |  |
| 18 | Get | RS422 Mode | USINT | 0 = 4-wire mode (RS422 full duplex)  1 = 2-wire mode (RS485 half duplex) |  |
| 20 | Get | I/O Produce Size | UINT | Number of data bytes returned in a I/O Response Message. |  |
| 21 | Get | I/O Consume Size | UINT | Number of data bytes expected in a I/O Command Message. |  |

**SERIAL RECEIVE OBJECT:**

**Class Code: 65 (0x41)**

**Instance: 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Instance**  **Attribute** | **Access** | **Name** | **Type** | **Description** | **Value** |
| 3 | Get | Receive Data | Data Type | Received message data. Returned in I/O Response Message. |  |
| 4 | Get | Receive Toggle | BOOL | Gateway toggles (0-1, 1-0) to indicate new Receive Data value. |  |
| 5 | Get | Receive Acknowledge | BOOL | When Sync Enabled, user application must set this bit to match Receive Toggle before next message is processed. |  |
| 6 | Get | Receive Mode | USINT | Bit 0 – use Data Field  Bit 1 – use Pre-String Field  Bit 2 – use Post-String Field |  |
| 7 | Get | Pre-String | Short\_String | String of 1-9 bytes. |  |
| 8 | Get | Post-String | Short\_String | String of 1-9 bytes. |  |
| 9 | Get | Data Type | USINT | 194 (0xC2) = SINT (1 byte)  195 (0xC3) = INT (2 bytes)  198 (0xC6) = USINT (1 byte)  199 (0xC7) = UINT (2 bytes)  202 (0xCA) = REAL (4 bytes)  218 (0xDA) = Short String (Data Size bytes) |  |
| 10 | Get | Data Size | USINT | 1-128 |  |
| 11 | Get | Width | USINT | 1-16 |  |
| 13 | Get | Conversion | USINT | ‘D’ (0x44) = ASCII represents decimal integer.  ‘X’ (0x58) = ASCII represents hex integer. |  |
| 14 | Get | Pad Char | CHAR | Pad byte value. Pad Poll Response if Rx data does not fill up Poll response message data. |  |
| 15 | Get | Data in I/O Response | BOOL | 0 = no, 1 = yes |  |
| 16 | Get | Enabled | BOOL | 0 = disabled, 1 = enabled |  |
| 17 | Get | Sync Enabled | BOOL | 0 = disabled, 1 = enabled |  |

**SERIAL TRANSMIT OBJECT:**

**Class Code: 66 (0x42)**

**Instance: 1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Instance**  **Attribute** | **Access** | **Name** | **Type** | | **Description** | **Value** |
| 3 | Get/Set | Transmit Data | Data Type | Message data to transmit. Received in I/O Command Message. | |  |
| 4 | Get/Set | Transmit Toggle | BOOL | | User app toggles (0-1, 1-0) to indicate new Transmit Data value. |  |
| 5 | Get | Transmit Acknowledge | BOOL | | Gateway sets this bit to match Transmit Toggle when the latest Transmit Data message has been sent. |  |
| 6 | Get/Set | Transmit Mode | USINT | | Bit 0 – use Data  Bit 1 – use String1 before data  Bit 2 – use String2 before data  Bit 3 – use String1 after data  Bit 4 – use String2 after data |  |
| 7 | Get/Set | String1 | Short\_String | | String of 1-9 bytes. |  |
| 8 | Get/Set | String2 | Short\_String | | String of 1-9 bytes. |  |
| 9 | Get/Set | Data Type | USINT | | 194 (0xC2) = SINT (1 byte)  195 (0xC3) = INT (2 bytes)  198 (0xC6) = USINT (1 byte)  199 (0xC7) = UINT (2 bytes)  202 (0xCA) = REAL (4 bytes)  218 (0xDA) = Short String (Data Size bytes) |  |
| 10 | Get/Set | Data Size | USINT | | 1-128 |  |
| 11 | Get/Set | Width | USINT | | 1-16 |  |
| 12 | Get/Set | Precision | USINT | | 0-6 |  |
| 13 | Get/Set | Conversion | USINT | | Bit 0 – hex (0 for decimal, 1 for hex)  Bit 7 – use leading zeros to pad number |  |
| 15 | Get/Set | Data In I/O Command | BOOL | | 0 = no, 1 = yes |  |