BRITE RTU Protocol

Connector Configuration Parameters

RTS ON DelayX10ms

Enter a number from 0 to 255 (0 to 2.55 seconds) to delay sending a message after turning on Request To Send (RTS). Commonly used with modem communication to allow additional time for the modems to synchronize.

RTS OFF DelayX10ms

Enter a number from 0 to 255 (0 to 2.55 seconds) to keep RTS on after a message has been sent. Commonly used to keep a radio on for a short period of time at the end of a message.

Handshake Option

If Full Handshake is selected the Omnii-Comm will assert RTS and wait for CTS before sending a message. RTS will be turned off after the message has been sent. If Constant Carrier is selected the Omnii-Comm will assert RTS when it sends its first message and leave it asserted. It will wait for CTS before sending. If Ignore CTS is selected, RTS will be asserted before sending a message and removed at the end of the message. The CTS input will be ignored. If No Handshake is selected, RTS will be asserted when the Omnii-Comm sends its first message. RTS will not be turned off at the end of the message. The CTS input will be ignored. If Activity Monitor is selected, the Omnii-Comm will check the DCD input before sending a message. If DCD is ON, the Omnii-Comm will delay sending the message.

Retry Count

The number of times a message will be retried before an error is reported.

Option Bit Parameters

Master/Slave

Check box if Omnii-Comm is going to be used as a Master (reading data from BRITE RTUs), uncheck the box if the Omnii-Comm is going to be used as a BRITE Slave device (emulates a BRITE RTU)

Use Radio Key

If checked, Bit 0 in a register specified by the "Radio Key Address" on the Header configuration screen will be turned ON before a message is sent and turned OFF after the message has been completed.

Zero Sup

If checked Analog Data will be "Zero Suppressed". This simply means that all unused bits will be set to zero.

Rt/Lft JustAnalog

Data will be Right Justified if the box is checked. That is the least significant bits will be to the right. Left justified Analog Data has the Most Significant bit all the way to the left.

12/10 Bit

Analog Data can have either 10 or 12 bits of resolution. Check this box if it is 12-bit. If the box is unchecked the data will be limited to 10 bits of resolution

Bit Reverse

Digital Data (Inputs and Outputs) can be optionally bit reversed. Bits 0 and 15 are swapped, 1 and 14 and so on.

Protocol Extension Table Parameters

Enter the Count and Starting Address to be returned for a Read All function ($F8) if the Omnii-Comm is a BIF Slave. If the Extension Table is not defined (Not Checked on the Connector Screen) all defined data points will be returned. If the table is defined, then enter the count (in hex) for data to be returned followed by the starting address, also in hex. The list processing is stopped when a zero is count is found.

Poll Table Read Parameters

Site Number

The Site Number that will respond to this Read. Valid Site Numbers are from 0 to 255.

Local Address

The Local Address to use for this Read function. Valid range is 0 to 255.

Bytes Expected

The total number of bytes expected in the response.

Poll Table Write and Error Parameters

Site Number

The Site Number that will receive the data. Valid rage is 0 to 255.

Local Address

The Local Address where the Write Data will start.

Number to Write

The number of elements to Write.

Bytes to Write

The total number of bytes to transfer for this Write operation.

Note: System Error Protocol Definitions are the same as Poll Table Write and Error Parameters

Database Extension Table Parameters

Index	Name	Size:Max Length
0	# Digital Inputs (00-1E)	2:256
1	# Analog Inputs (40-9E)	2:256
3	# Digital Outputs (20-3E)	2:256
4	# Analog Outputs (A0-F6)	2:256