

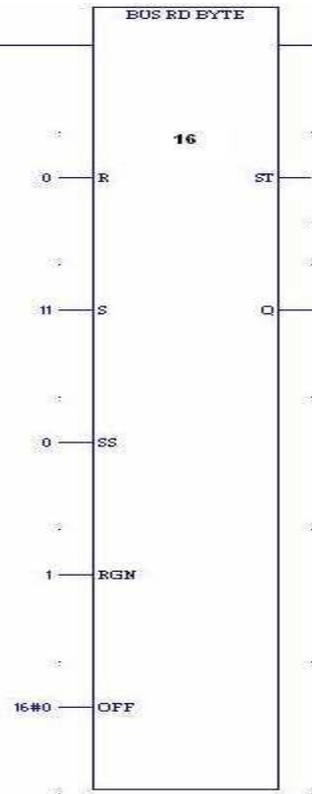


The BUS READ BYTE instruction uses the following parameters.

Parameter	Description	Additional Information
LEN	Length = number of bytes to be transferred	1931 & 1941 = 4 1932 & 1942 = 8 1933 & 1943 = 12 1934 & 1944 = 16 1961 = 6 1962 = 12  1931-05 & 1941-05 = 6 1932-05 & 1942-05 = 10 1933-05 & 1943-05 = 14 1934-05 & 1944-05 = 18  2931 = 6 2941 = 6 2932 = 10 7951 = 10 7952 = 20 7961 = 16
R	Rack Number	Rack where the AMCI module is located
S	Slot Number	Slot where the AMCI module is located (must match dip switches)
SS	Subslot Number	Optional, Defaults to zero
RGN	Region	Optional, Defaults to one
OFF	Offset	The Offset in Bytes
ST	Status	Optional, the status of the reading operation
Q	Reference	Register location where read data will be placed.

The following image shows the BUS READ BYTE instruction reading data from a 1934 or a 1944 module located in slot 11 of rack zero. Your length and other address parameters may be different.

The reading operation will occur when the instruction receives power on this input.



This output will pass power to the when the read operation is successful.

A value of zero will be placed in the Status Register to indicate that data has been successfully transferred.

Location of data read from the AMCI module

### Status Output

Value	Meaning
0	Operation successful
1	Bus Error
2	Module does not exist at rack/slot location
3	Module at rack / slot location is an invalid type
4	Start Address is outside the configured range
5	End Address is outside the configured address range
6	Absolute address even but interface configured as odd byte only
8	Region not enabled
10	Function parameter invalid

**Writing to AMCI modules in an Rx7i system**

AMCI **193X-05, 194X-05, 293X, 7951, 7952** and **7961** can also be used in an Rx7i system. Reading data from these modules is exactly the same as in the description listed above. However, because the Rx7I system operates at a much faster rate than the AMCI modules, it will be necessary to write only one byte of data at a time when sending setup data from the PLC to the AMCI module.

This can be accomplished in one of two ways.

You can create separate BUS\_WRT\_BYTE instructions for each byte of data that you want to send to the AMCI module, or you can use the same BUS\_WRT\_BYTE instruction multiple times, changing the source and destination information each time the rung with the write instruction becomes true.

Whichever method you use, it is important that word 1 be the last word written to the AMCI module. The upper byte of this word contains the Transmit Bit and the AMCI module only acts on the data written to it on the 0 to 1 transition of this bit. Ignoring this step will cause the AMCI module to act on the last programmed data and not on the data that you are currently sending to the module.

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