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Average Factor

Average factor of a byte data based on maximum turn on time within data byte transmission:

As turn on time of bit '1' is longer than turn on time of bit '0', we have to find out code assignment of the data bytes having maximum number of bit '1'.

Codes having maximum number of bit '1' are: 2fh, 37h, 3bh, 4fh, 57h and 5bh, which are carrying 5 bit '1's. Together with start bit, the number of bit '1' in the data bit is 6.

Turn turn on time of these code bytes = $500 \times 6 + 200 \times 3 = 3600 \text{us} = 3.6 \text{ms}$