

IBus Message Syntax

From HackTheIBus

IBus Message Protocol

Each ibus message adheres to the following syntax:

TX	LL	RX	MM	DB1	...	DBn	CS
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where

- TX = sender address (see list of IBus Devices)
- LL = length (number of following bytes)
- RX = recipient address (see list of IBus Devices)
- MM = ibus message (see list of IBus Messages)
- DB1...DBn = databytes 1 to n (can be empty for some messages)
- CS = XOR checksum (see VB6 and C Checksum Code example)

Minimum message length is 5 bytes (Tx LL Rx MM CS)

DB length is specified as maximum 32 bytes but in some instances can be longer

As LL can be 0xFF that makes the maximum possible message length to be $0xFF + 2 = 0x101$ or 257 bytes

Message Examples

Example 1:

80 04 BF 11 00 2A

- TX = 0x80 : IKE, instrument cluster
- LL = 0x04 : 4 bytes following
- RX = 0xBF : GLO, global
- MM = 0x11 : message 0x11, which is "Ignition status"
- DB1 = 0x00 : data byte 1, for "Ignition status", data of 00 means "Off"
- CS = 0x2A : XOR checksum

Example 2:

(to be added)

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