

3.28 MRM_COMM_CHECK_REQUEST (0xFFFE)

API: MRM_API

Message type: REQUEST (Host)

Corresponding Message type: MRM_COMM_CHECK_CONFIRM (Radio)

Purpose: This is request message sent by the Host to MRM asking for a communications check to be performed which involves send-repeat pattern to ensure data is being correctly encoded/transmitted and received/decoded.

Packet Definition

#	Parameter	Type	Definition
0	MRM_COMM_CHECK_REQUEST (0xFFFE)	UINT16	Message type
1	Message ID	UINT16	A tracking number used to associate Host REQUEST messages to MRM CONFIRM messages.
2	Unsigned 8-bit integer check value	UINT8	Test value that will be repeated back to Host by MRM in MRM_COMM_CHECK_CONFIRM.
3	Unsigned 16-bit integer check value	UINT16	Test value that will be repeated back to Host by MRM in MRM_COMM_CHECK_CONFIRM.
4	Unsigned 32-bit integer check value	UINT32	Test value that will be repeated back to Host by MRM in MRM_COMM_CHECK_CONFIRM.
5	Signed 8-bit integer check value	INT8	Test value that will be repeated back to Host by MRM in MRM_COMM_CHECK_CONFIRM.
6	Signed 16-bit integer check value	INT16	Test value that will be repeated back to Host by MRM in MRM_COMM_CHECK_CONFIRM.
7	Signed 32-bit integer check value	INT32	Test value that will be repeated back to Host by MRM in MRM_COMM_CHECK_CONFIRM.

3.29 MRM_COMM_CHECK_CONFIRM (0xFFFF)

API: MRM_API

Message type: CONFIRM (Radio)

Corresponding Message type: MRM_COMM_CHECK_REQUEST (Host)

Purpose: This is the message sent by the MRM in response to a MRM_COMM_CHECK_REQUEST from the Host. It repeats the information provided in the request along with additional information.

Packet Definition

#	Parameter	Type	Definition
0	MRM_COMM_CHECK_CONFIRM (0xFFFF)	UINT16	Message type
1	Message ID	UINT16	A tracking number used to associate Host REQUEST messages to MRM CONFIRM messages.
2	Unsigned 8-bit integer check value	UINT8	Test value provided in MRM_COMM_CHECK_REQUEST repeated back to Host by MRM.
3	Unsigned 16-bit integer check value	UINT16	Test value provided in MRM_COMM_CHECK_REQUEST repeated back to Host by MRM.
4	Unsigned 32-bit integer check value	UINT32	Test value provided in MRM_COMM_CHECK_REQUEST repeated back to Host by MRM.
5	Signed 8-bit integer check value	INT8	Test value provided in MRM_COMM_CHECK_REQUEST repeated back to Host by MRM.
6	Signed 16-bit integer check value	INT16	Test value provided in MRM_COMM_CHECK_REQUEST repeated back to Host by MRM.
7	Signed 32-bit integer check value	INT32	Test value provided in MRM_COMM_CHECK_REQUEST repeated back to Host by MRM.
8	Datetime string	CHAR[15]	Unicode string representing datetime at which the request was received and parsed. Format is %Y%m%dT%H%M%S, https://docs.python.org/3/library/datetime.html#strptime-and-strptime-format-codes .
9	Status	UINT32	0 = Successful. For error codes see Table 3-1 at the end of this section.