MIDI Channel Mode Messages

For all MIDI Channel Mode Messages, the message channel 'n' must be the Basic Channel of the MIDI device, or the message will be ignored.

MIDI Channel Mode Messages

Status Byte	Data Bytes		Message		Description		
Bn	78	00	All Sound Off		Turn off all sound, including <u>envelopes</u> of notes still sounding, and reverb-effects (if applicable).		
			Value Range		Description		
				0-F	MIDI Channel	ø = Ch 1	
Status Byte	Da Byt		Message		Description		
Bn	79	00	Reset All		Reset all controllers to their 'default' poincluding all continuous and switch corbend, and aftertouch effects.		
					Each controller should be returned to a suitable initial condition for that controller. For example, pitch-bend should be returned to it 'center' position.		
				This message must be ignored if Omni is On (Moand 2).		i is On (Modes 1	
		Value	Range	Description			
			n	0-F	MIDI Channel	ø = Ch 1	
Status Byte			Message		Description		
Bn	7A	XX		cal ontrol	Disconnect (or reconnect) the keyboar generator in a MIDI synthesizer.	d and the sound	
					The keyboard should continue to send messages via the MIDI-out port, and the sound-generation circuitry should continue to respond to message received via the MIDI-in port, regardless of this switch.		
			Value Range		· -		
			n		MIDI Channel	ø = Ch 1	
			XX	00, 7F	If 00, disconnect the local keyboard from the sound generating functions of a synthesizer. If 7F, reconnect the local keyboard to the sound-generator.	00=Off 7F=On (default)	
Status Byte	Data Bytes		Message		Description		
Bn	7B 00 All Notes Off			Turn off all notes which for which a note-on MIDI message has been received. (note 1) This only applies to notes turned on via MIDI, and not to notes turned on via pressing keys on a local keyboard.			

PM	-	-		MIDI Channel Mode Messages		
				This message must be ignored if Omn and 2).	i is On (Modes 1	
				If a hold-pedal is 'on' (controller 0x40), then this message should not be acted on until the hold-pedal is released		
		Value	Range	Description		
		n	0-F	MIDI Channel	ø = Ch 1	
Da	ıta	N4		December 1		
By	tes	IVIES	sage	Description		
Bn 7C 00						
				This puts the receiving MIDI device into Channel Mode 3 or 4, depending on the current state of the Mono/Poly switch. (note 3)		
		Value	Range	Description		
		n	0-F	MIDI Channel	ø = Ch 1	
		Massaga Description				
				The receiver should respond to Channel Voice messages which is receives on <i>any</i> MIDI channel. (note 2)		
				This puts the receiving MIDI device into Channel Mode 1 or 2, depending on the current state of the Mono/Poly switch. (note 3)		
		Value	Range	Description		
		n	0-F	MIDI Channel	ø = Ch 1	
Status Data Byte Bytes		Message		Description		
7E	m	U	D	Puts the receiver into monophonic mo	de. <u>(note 2)</u>	
		Mono On	Mode	This puts the receiving MIDI device into Channel Mode 2 or 4, depending on the state of the Omni switch. (note 3)		
				While Omni is on, the <i>m</i> =1 is used.		
				If <i>n</i> + <i>m</i> -1 > Ch.16 there is <i>no</i> wrap-around to Ch.1. Only channels <i>n</i> 16 are used		
		Value	Range	Description		
		n	0-F	MIDI Channel	ø = Ch 1	
		m	00-10	Number of MIDI Channels to use when in Mode 4. This parameter has no effect in Mode 2.	00 = use n16 01 = use 1 channel 0x10 = use 16 channels	
					CHAULEIS	
					(provided <i>n</i> =0)	
	Da By 7C	Data Bytes 7D 00 Data Bytes April 100 Data Bytes Data Bytes	Value n Data Mes Rytes TC 00 Or Mo Value n	Value Range n 0-F Data Bytes	This message must be ignored if Omn and 2). In Mode 4 (as well as Mode 3), this me only affect the MIDI Channel on which if a hold-pedal is 'on' (controller 0x40), message should not be acted on until released. Value Range Description Mode Off Off Mode Off Mode Off Mode Off Mode Off Off Mode Off Mode Off Off Off Mode Off Off Mode Off Off Mode Off Off Off Mode Off Off Off Mode Off Off Off Off Off Off Off Off Off Of	

Byte	Byt	tes				
Bn	7F	00	Poly Mode		Puts the receiver into polyphonic mode. (note 2)	
			On		This puts the receiving MIDI device into Channel Mode 1 or 3, depending on the state of the Omni switch. (note 3)	
			Value	Range	Description	
			n	0-F	MIDI Channel	ø = Ch 1

Footnotes

Note 1

There no requirement that a MIDI device support the All-Notes-Off message. A MIDI transmitter must still send individual note-off messages for each note which has been turned on, regardless of the fact that it has sent an All-Notes-Off message.

Note 2

There is an implicit 'All-Notes-Off' function associated with a change of the Channel Mode. That is, when changing Channel Mode, the receiver should turn off all notes turned on *via MIDI messages* while in the old mode. This excludes notes turned on via the 'local' keyboard (if applicable).

Although it is not stated explicitly in the specification, I think this:

- includes notes on all channels *n...n+m-*1 while in Mode 4.
- applies even if the Omni was or is 'On' (unlike the All-Notes-Off message).

To quote the specification (section 2, p20):

"Messages 123 [7B] to 127 [7F] ... will turn off all voices controlled by the assigned Basic Channel".

and (section 2, A-4):

"When a receiver is switching between Omni On/Off and Poly or Mono modes, all notes should be turned off. This is to avoid any unexpected behavior when the instrument's mode is switched."

Note 3

There is no requirement on a MIDI device to support all 4 possible Channel Modes

If a Mode Change message is ignored (due to a particular mode being absent), there is no requirement to perform the All-Notes-Off function.