

### GM1 - Familia de Instrumentos

El General MIDI 1 (GM1) esta agrupado por familias de sonidos instrumentales. En cada familia hay 8 específicos instrumentos:

**ATENCION: observar que los valores están expresados en NUMERACION DECIMAL.**

Program Change	Familia	Program Change	Familia
0-7	Piano	8-15	Chromatic Percussion
16-23	Organ	24-31	Guitar
32-39	Bass	40-47	Strings
48-55	Ensemble	56-63	Brass
64-71	Reed	72-79	Pipe
80-87	Synth Lead	88-95	Synth Pad
96-103	Synth Effects	104-111	Ethnic
112-119	Percussive	120-127	Sound Effects

### GM1 Mapa de Sonidos

Mientras el GM1 no define las actuales características de ningún sonido, los nombres entre paréntesis de las familias de instrumentos de: synth leads, pads, y sound effects, solo intentan ser guías para definirlos y aproximarse a ellos.

**Nota:** la numeración de la lista del mapa de sonidos del GM1 se organiza dentro de un rango de 0 a 127 sonidos de acuerdo a valores decimales de mensajes MIDI de Program Change.

0. Acoustic Grand Piano	1. Bright Acoustic Piano	2. Electric Grand Piano
3. Honky-tonk Piano	4. Electric Piano 1	5. Electric Piano 2
6. Harpsichord	7. Clavi	8. Celesta
9. Glockenspiel	10. Music Box	11. Vibraphone
12. Marimba	13. Xylophone	14. Tubular Bells
15. Dulcimer	16. Drawbar Organ	17. Percussive Organ
18. Rock Organ	19. Church Organ	20. Reed Organ
21. Accordion	22. Harmonica	23. Tango Accordion
24. Acoustic Guitar (nylon)	25. Acoustic Guitar (steel)	26. Electric Guitar (jazz)
27. Electric Guitar (clean)	28. Electric Guitar (muted)	29. Overdriven Guitar
30. Distortion Guitar	31. Guitar harmonics	32. Acoustic Bass
33. Electric Bass (finger)	34. Electric Bass (pick)	35. Fretless Bass
36. Slap Bass 1	37. Slap Bass 2	38. Synth Bass 1
39. Synth Bass 2	40. Violin	41. Viola
42. Cello	43. Contrabass	44. Pizzicato Strings
45. Tremolo Strings	46. Orchestral Harp	47. Timpani
48. String Ensemble 1	49. String Ensemble 2	50. SynthStrings 1
51. SynthStrings 2	52. Choir Aahs	53. Voice Oohs
54. Synth Voice	55. Orchestra Hit	56. Trumpet
57. Trombone	58. Tuba	59. Muted Trumpet
60. French Horn	61. Brass Section	62. SynthBrass 1
63. SynthBrass 2	64. Soprano Sax	65. Alto Sax
66. Tenor Sax	67. Baritone Sax	68. Oboe
69. English Horn	70. Bassoon	71. Clarinet

<b>72.</b> Piccolo	<b>73.</b> Flute	<b>74.</b> Recorder
<b>75.</b> Pan Flute	<b>76.</b> Blown Bottle	<b>77.</b> Shakuhachi
<b>78.</b> Whistle	<b>79.</b> Ocarina	<b>80.</b> Lead 1 (square)
<b>81.</b> Lead 2 (sawtooth)	<b>82.</b> Lead 3 (calliope)	<b>83.</b> Lead 4 (chiff)
<b>84.</b> Lead 5 (charang)	<b>85.</b> Lead 6 (voice)	<b>86.</b> Lead 7 (fifths)
<b>87.</b> Lead 8 (bass + lead)	<b>88.</b> Pad 1 (new age)	<b>89.</b> Pad 2 (warm)
<b>90.</b> Pad 3 (polysynth)	<b>91.</b> Pad 4 (choir)	<b>92.</b> Pad 5 (bowed)
<b>93.</b> Pad 6 (metallic)	<b>94.</b> Pad 7 (halo)	<b>95.</b> Pad 8 (sweep)
<b>96.</b> FX 1 (rain)	<b>97.</b> FX 2 (soundtrack)	<b>98.</b> FX 3 (crystal)
<b>99.</b> FX 4 (atmosphere)	<b>100.</b> FX 5 (brightness)	<b>101.</b> FX 6 (goblins)
<b>102.</b> FX 7 (echoes)	<b>103.</b> FX 8 (sci-fi)	<b>104.</b> Sitar
<b>105.</b> Banjo	<b>106.</b> Shamisen	<b>107.</b> Koto
<b>108.</b> Kalimba	<b>109.</b> Bag pipe	<b>110.</b> Fiddle
<b>111.</b> Shanai	<b>112.</b> Tinkle Bell	<b>113.</b> Agogo
<b>114.</b> Steel Drums	<b>115.</b> Woodblock	<b>116.</b> Taiko Drum
<b>117.</b> Melodic Tom	<b>118.</b> Synth Drum	<b>119.</b> Reverse Cymbal
<b>120.</b> Guitar Fret Noise	<b>121.</b> Breath Noise	<b>122.</b> Seashore
<b>123.</b> Bird Tweet	<b>124.</b> Telephone Ring	<b>125.</b> Helicopter
<b>126.</b> Applause	<b>127.</b> Gunshot	

### General MIDI 1 - Percussion Key Map

En el MIDI Channel 10 (del GM1), cada numero de Nota MIDI corresponde a un sonido diferente de percusión, tal como se muestra en la siguiente tabla correspondientes al rango de valores MIDI de 34 a 78.

<b>34.</b> Acoustic Bass Drum	<b>35.</b> Bass Drum 1	<b>36.</b> Side Stick
<b>37.</b> Acoustic Snare	<b>38.</b> Hand Clap	<b>39.</b> Electric Snare
<b>40.</b> Low Floor Tom	<b>41.</b> Closed Hi Hat	<b>42.</b> High Floor Tom
<b>43.</b> Pedal Hi-Hat	<b>44.</b> Low Tom	<b>45.</b> Open Hi-Hat
<b>46.</b> Low-Mid Tom	<b>47.</b> Hi Mid Tom	<b>48.</b> Crash Cymbal 1
<b>49.</b> High Tom	<b>50.</b> Ride Cymbal 1	<b>51.</b> Chinese Cymbal
<b>52.</b> Ride Bell	<b>53.</b> Tambourine	<b>54.</b> Splash Cymbal
<b>55.</b> Cowbell	<b>56.</b> Crash Cymbal 2	<b>57.</b> Vibraslap
<b>58.</b> Ride Cymbal 2	<b>59.</b> Hi Bongo	<b>60.</b> Low Bongo
<b>61.</b> Mute Hi Conga	<b>62.</b> Open Hi Conga	<b>63.</b> Low Conga
<b>64.</b> High Timbale	<b>65.</b> Low Timbale	<b>66.</b> High Agogo
<b>67.</b> Low Agogo	<b>68.</b> Cabasa	<b>69.</b> Maracas
<b>70.</b> Short Whistle	<b>71.</b> Long Whistle	<b>72.</b> Short Guiro
<b>73.</b> Long Guiro	<b>74.</b> Claves	<b>75.</b> Hi Wood Block
<b>76.</b> Low Wood Block	<b>77.</b> Mute Cuica	<b>78.</b> Open Cuica
<b>79.</b> Mute Triangle	<b>80.</b> Open Triangle	