

# Classical Pipe organ MIDI-CI profile

## Profile ID

Byte 1	Standard defined profile
Byte 2	Pipe organ profile number MSB
Byte 3	Pipe organ profile number LSB
Byte 4	Profile Version
Byte 5	Profile level

## Bitmap format

Byte	Bits		
Byte 1	D0	Division mapping 0 = Pedal, 1 = Great, 2 = Swell, 3 = Choir/Positive, 4 = Solo, 5 = String, 6 = antiphonal and 7 is user defined	Tells which division of a Pipe organ that this profile covers
	D1		
	D2		
	D3		
	D4		
	D5		
	D6		
	D8		

## Required Channel messages

### Note on/off

If the divisional mapping is 0, the device will sound all notes from C2 (36)-G4(67)

If not, the device will sound all notes from C2 (36)-C7 (96)

Velocity will be ignored

### Registered Channel numbers

### Midi 1 mapping

For all the following flags, a 1 will turn that stop on and a 0 will turn it off.

Symbols used:

< maps one bit higher if stop not present

> maps one bit lower if stop not present

<2 maps the number displayed bits higher if stop not present

>2 maps the number displayed bits lower if stop not present

\* maps to lowest bit of the same family and pitch if stop not present

\*\* maps to an appropriate bit of the same pitch if stop and all other stops of the same family are not present

\*\*\* or more asterisks; refer to footnote

Registered Parametric number MSB	Registered Parametric Number LSB	Data (14 bits)
(undefined)	0x0	LSB: Bit 0 (64' rank) Bit 1 (32' Principal 1) Bit 2 (32' Principal 2)* Bit 3 (32' Flute)** Bit 4 (32' String)** Bit 5 (21 2/3' Principal) Bit 6 (21 2/3' Flute)** MSB: Bit 7 (16' Wood Principal) Bit 8 (16' Metal Principal)* Bit 9 (16' Flute 1)* Bit 10 (16' Flute 2)** Bit 11 (16' String)** Bit 12 (10 2/3' Principal) Bit 13 (10 2/3' Flute) **
(undefined)	0x01	LSB: Bit 0 (8' Major Principal)< Bit 1 (8' Principal 1 (mellow)) Bit 2 (8' Principal 2 (mid))* Bit 3 (8' Principal 3 (bright))* Bit 4 (8' Gemshorn)>3 Bit 5 (8' Open/Harmonic Flute) Bit 6 (8' Stopped flute/gedackt) MSB: Bit 7 (8' Quintaden)*** Bit 8 (8' Flute dulcet) Bit 9 (8' Flute celeste) Bit 10 (8' Gamba) Bit 11 (8' String)

		Bit 12 (8' String celeste) Bit 13 (8' String unda maris)
<p>&lt; maps to next bit if no Major Principal 8 on organ          &gt;3 maps 3 bits lower if no Gemshorn 8 on organ          *** Quintaden can map to flutes of 8 and 2 2/3 if there is no quintaden present</p>		
(undefined)	0x02	LSB: Bit 0 (5 1/3' Principal) Bit 1 (5 1/3' Flute)** Bit 2 (4' Principal 1 (mellow)) Bit 3 (4' Principal 2 (mid-bright)) Bit 4 (4' Gemshorn)>2 Bit 5 (4' Sptiz flute) Bit 6 (4' Clear/Traverse flute) MSB: Bit 7 (4' Koppel flute) Bit 8 (4' String) Bit 9 (4' String celeste) Bit 10 (2 2/3' Principal) Bit 11 (2 2/3' Flute)** Bit 12 (3 1/5 Stop) Bit 13 (2' Principal 1)
(undefined)	0x03	LSB: Bit 0 (2' Principal 2)* Bit 1 (2' Gemshorn)>2 Bit 2 (2' Piccolo)** Bit 3 (2' Wald flute)* Bit 4 (2' String) Bit 5 (2' String celeste) Bit 6 (1 3/5' Principal) MSB: Bit 7 (1 3/5' Flute)** Bit 8 (1 1/3' Principal) Bit 9 (1 1/3' Flute)** Bit 10 (1 1/7 Stop) Bit 11 (1' Principal) Bit 12 (1' Flute)** Bit 13 (8/9 Stop)
(undefined)	0x04	LSB: Bit 0 (Low Mixture II-X) for 16' Bit 1 (Mid Mixture II-X) for 8' Bit 2 (High Mixture/Cymbal /Scharf II-V) Bit 3 (Cornet III-V)*** Bit 4 (Sesquialtera II)**** Bit 5 (Mixture with thirds II-X)***** Bit 6 (String Mixture II-X)

		MSB: Bit 7 (64' Reed) Bit 8 (32' Bombarde) Bit 9 (32' Trombone/Posaune)* Bit 10 (32' Fagott)* Bit 11 (16' Tuba) Bit 12 (16' Bombarde) Bit 13(16' Double trumpet)*
*** Cornet bit will map to appropriate 5 ranks (8, 4, 2 2/3, 2 and 1 3/5) if no cornet mixture stop. **** Sesquialtera bit will map to appropriate 2 ranks (2 2/3 and 1 3/5) if no Sesquialtera stop present. A 2 rank cornet will also map to this bit. ***** Any mixture that has thirds and is not a 2 rank sesquialtera will map here		
(undefined)	0x05	LSB Bit 0 (16' Trombone/Posaune)* Bit 1 (16' Fagott)* Bit 2 (16' Rankette/Dulzian)** Bit 3 (8' Royal/Festive trumpet) Bit 4 (8' Tuba)* Bit 5 (8' Trumpet/Trompette) Bit 6 (8' Cornopeon)* MSB: Bit 7 (8' Fagott) Bit 8 (8' Horn) Bit 9 (8' Hauboiss/Oboe) Bit 10 (8' Cor Anglais/English horn) Bit 11 (8' Krumhorne/Cromorne /Cremona)< Bit 12 (8' Clarinet)> Bit 13 (8' Regal)>2
(undefined)	0x06	LSB: Bit 0 (8' Vox Humana) Bit 1 (4' Tuba) Bit 2 (4' Clarion) Bit 3 (4' Schalmei)* Bit 4 (Tremulant) Bit 5 (Zimblestern) Bit 6 (16' coupler) Bit 7 (8' unison off) MSB: Bit 8 (4' coupler) Bits 9-13 are reserved)

## Midi 2 mapping

TODO

