# ======= PROTOCOL for VA-16xl =========

## **22/16h** 2byte 3byte 4byte

#### Set Audio Gain

2byte - bit 0-4 - channel#

bit 5 - left channel bit 6 - right channel

for both channels at the same time bits 5,6 should be 00 or 11.

3byte - Seven less Significant Bits of the Gain value,

Eights bit in byte 4 (Bit 5)

Gain can be set with resolution 0.5dBGain(dB)=31.5-[0.5x(255-N)]

4byte - Bit 0-4 - MachNum

Bit 5 - Most significant bit of 3rd byte. Together with byte 3

forms full value of the Gain

### 24/18h 2byte 3byte MachNum

Increase/Decrease Audio Gain

2byte - same as 22/16h

3byte - bit 0 = 0 - increase gain

1 - decrease gain

#### 25/19h 2byte 3byte MachNum

Request Audio Gain

2byte - same as 22/16h 3byte - same as 22/16h 3byte - same as 22/16h

for request for both channels the reply is:

if gain for left/right equal, bits 6,5=00/11 if different - reply for left channel, bit6,5=01

Also implemented commands 15/0Fh, 18/12h, 19/13h, 20/14h, 61/3Dh, 62/3Eh – all according with protocol 2000

For commands **18/12h**, **19/13h** - setups from 01/01h to 15/0Fh.