



## MFA216

All-in-one audio solution - 2 x 80W

@ 4 Ohm - 160W @ 70/100V

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### MFA Commands List

### MFA2xx commands

#### Volume

##### Set volume down 3db

command SVD

```
#|F001|web|SVDzz|0|U|<CR><LF> zz = zone
```

reply:

```
#|F001|web|VDzz|+|U|<CR><LF> #|ALL|F001|V01|v|U|<CR><LF> #|ALL|F001|V02|v|U|<CR><LF>
```

v = volume

##### Set volume up 3db

command SVU

```
#|F001|web|SVUzz|0|U|<CR><LF> zz = zone
```

reply:

```
#|web|F001|VUzz|+|U|<CR><LF> #|ALL|F001|V01|v|U|<CR><LF> #|ALL|F001|V02|v|U|<CR><LF>
```

v = volume

##### Set Volume

command SV

```
#|F001|web|SVzz|v|U|<CR><LF> zz = zone
```

v = volume 10 = -10dB

reply:

```
#|web|F001|Vzz|+|U|<CR><LF> #|ALL|F001|V01|v|U|<CR><LF> #|ALL|F001|V02|v|U|<CR><LF>
```

### **Get Volume**

command GV

```
#|F001|web|GVzz|0|U|<CR><LF> zz = zone
```

reply:

```
#|web|F001|Vzz|v|U|<CR><LF> v = volume
```

### **Get Volume ALL**

command

```
#|F001|web|GVALL|0|U|<CR><LF>
```

reply:

```
#|web|F001|VALL|v^v|U|<CR><LF> v = volume
```

## **Routing**

### **Set routing up**

command

```
#|F001|web|SRUzz|0|U|<CR><LF> zz = zone
```

reply:

```
#|web|F001|RUzz|+|U|<CR><LF> #|ALL|F001|R01|i^r|U|<CR><LF> #|ALL|F001|R02|i^r|U|<CR><LF>
```

i = input enable, r = selected input

### **Set routing down**

command

#|F001|web|SRDzz|0|U|<CR><LF> zz = zone

reply:

#|web|F001|RDzz|+|U|<CR><LF> #|ALL|F001|R01|i^r|U|<CR><LF> #|ALL|F001|R02|i^r|U|<CR><LF>

i = input enable, r = selected input

### **Set routing**

command

#|F001|web|SRzz|r|U|<CR><LF> zz = zone

r = selected input

reply:

#|web|F001|SRzz|+|U|<CR><LF> #|ALL|F001|R01|i^r|U|<CR><LF> #|ALL|F001|R02|i^r|U|<CR><LF>

i = input enable, r = selected input

### **Get routing**

command

#|F001|web|GRzz|0|U|<CR><LF> zz = zone

reply:

#|web|F001|Rzz|r^r|U|<CR><LF> r = selected input

### **Get Routing ALL**

command

#|F001|web|GRALL|0|U|<CR><LF>

reply:

#|web|F001|RALL|r^r|U|<CR><LF> r = selected input

## **Input enable**

### **Set Input enable**

command

#|F001|web|SIEzz|i1^i2^i3^i4^i5^i6^i7^i8|U|<CR><LF> zz = zone

i1..i8 = input 1 to 11

reply:

#|web|F001|IEzz|+|U|<CR><LF> #|ALL|F001|IEzz|i1^i2^i3^i4^i5^i6^i7^i8|U|<CR><LF>

### **Get Input enable**

command

#|F001|web|GIEzz|0|U|<CR><LF> zz = zone

reply:

#|web|F001|IEzz|i1^i2^i3^i4^i5^i6^i7^i8|U|<CR><LF> i1..i8 = input 1 to 11

## **Mute**

### **Set Mute**

command

#|F001|web|SMzz|m|U|<CR><LF> zz = zone

m = 0,1 1 = muted

reply:

#|web|F001|SMzz|+|U|<CR><LF> #|ALL|F001|M01|m|U|<CR><LF> #|ALL|F001|M02|m|U|<CR><LF>

### **Get Mute**

command

#|F001|web|GMzz|0|U|<CR><LF> zz = zone

reply:

#|web|F001|Mzz|m|U|<CR><LF> m = 0,1 1 = muted

### **Get Mute ALL**

command

#|F001|web|GMALL|0|U|<CR><LF>

reply:

#|web|F001|MALL|m^m|U|<CR><LF> m = 0,1 1 = muted

## Input names

### Get Input names

command

#|F001|web|GIN|0|U|<CR><LF>

reply:

#|web|F001|IN|n1^n2^n3^n4^n5^n6^n7^n8^n9^n10^n11|U|<CR><LF> n = name of input, max 15 char  
starts from name 1 = microphone

### Set Input names

command

#|F001|web|SIN|n1^n2^n3^n4^n5^n6^n7^n8^n9^n10^n11|U|<CR><LF> n = name of input, max 15 char  
starts from name 1 = microphone

reply:

#|web|F001|SIN|+|U|<CR><LF> #|ALL|F001|IN|n1^n2^n3^n4^n5^n6^n7^n8^n9^n10^n11|U|<CR><LF>

n = name of input, max 15 char

## Output names

### Get zone ( output ) names

command

#|F001|web|GZN|0|U|<CR><LF>

reply:

#|web|F001|ZN|n0^n1^d1^d2^d3^d4|U|<CR><LF> n = name of zone, max 15 char  
d = name of dante zone, max 15 char

### Set zone ( output ) names

command

#|F001|web|SZN|n0^n1^d1^d2^d3^d4|U|<CR><LF> n = name of zone, max 15 char  
d = name of dante zone, max 15 char

reply:

```
#|web|F001|SZN|+|U|<CR><LF> #|ALL|F001|ZN|n0^n1^d1^d2^d3^d4|U|<CR><LF>
```

n = name of zone, max 15 char

d = name of dante zone, max 15 char

## Filter

### Set Filter

command

```
#|F001|web|SFLTzz|lh^type^freq^order|U|<CR><LF> zz zone  
lh 2 (LOWPASS) 3 (HIGHPASS)  
type 0(off), 1(butterworth), 2 (BESSEL), 3(LINKWITZ RILEY) freq 10 to 20000  
order 2 or 4
```

reply:

```
#|web|F001|SFLTzz|+|U|<CR><LF> #|ALL|F001|FLTzz|lh^t^f^o|U|<CR><LF>
```

### Get Filter

command

```
#|F001|web|GFLTzz|0|U|<CR><LF> zz = zone
```

reply:

```
#|web|F001|FLTzz|lh^type^freq^order|U|<CR><LF> zz zone  
lh 2 (LOWPASS) 3 (HIGHPASS)  
type 0(off), 1(butterworth), 2 (BESSEL), 3(LINKWITZ RILEY) freq 10 to 20000  
order 2 or 4
```

## Equalizer Input Output

### Set Input/output EQ

command

```
#|F001|web|SEQZzz|nr^enable^freq^q^boost^gain|U|<CR><LF> zz = zone  
nr 1 to 7  
enable 0 or 1  
freq 10 to 20000
```

q 1 to 99 (0.1 to 9.9)

boost -30 to 30 (-30dB to +30dB) gain -10 to 10 (-10dB to +10dB)

reply:

```
#|web|F001|SEQZzz|+|U|<CR><LF> #|ALL|F001|EQZzz|nr^enable^freq^q^boost^gain|U|<CR><LF>
```

### **Get Input/output EQ**

command

```
#|F001|web|GEQZzz|nr|U|<CR><LF>
```

zz zone nr 1 - 7

reply:

```
#|web|F001|EQZzz|nr^enable^freq^q^boost^gain|U|<CR><LF> nr 1 to 7
```

enable 0 or 1

freq 10 to 20000

q 1 to 99 (0.1 to 9.9)

boost -30 to 30 (-30dB to +30dB) gain -10 to 10 (-10dB to +10dB)

### **Get Input/output ALL EQ**

command

```
#|F001|web|GEQZALLzz||U|<CR><LF> zz zone
```

reply:

```
#|web|F001|EQZALLzz|enable1^freq1^q1^boost1^gain1^ ... ^enable7^freq7^q7^boost7^gain7|U|<CR><LF> enable 0
```

or 1

freq 10 to 20000

q 1 to 99 (0.1 to 9.9)

boost -30 to 30 (-30dB to +30dB) gain -10 to 10 (-10dB to +10dB)

## **Delay**

### **Set delay in samples**

command

```
#|F001|web|SDESzz|samples|U|<CR><LF> zz zone
```

samples 1 to 1700

reply:

```
#|web|F001|SDESzz|+|U|<CR><LF> #|ALL|F001|DESzz|samples|U|<CR><LF>
```

### **Get delay in samples**

command

```
#|F001|web|GDESzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|DESzz|samples|U|<CR><LF> samples 1 to 1700
```

Set delay in ms

command

```
#|F001|web|SDELzz|d|U|<CR><LF> zz zone
```

d 0 to 35ms

reply:

```
#|web|F001|SDELzz|+|U|<CR><LF> #|ALL|F001|DELzz|d|U|<CR><LF>
```

### **Get delay in ms**

command

```
#|F001|web|GDELzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|DELzz|d|U|<CR><LF>
```

d 0 to 35 ms

## **Max volume**

### **Set max volume**

command

```
#|F001|web|SMVzz|volume|U|<CR><LF> zz zone
```

volume 0 to 70 (0dB to -70dB)

reply:

```
#|web|F001|SMVzz|+|U|<CR><LF> #|ALL|F001|MVzz|volume|U|<CR><LF>
```



## Get max volume

command

```
#|F001|web|GMVzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|MVzz|volume|U|<CR><LF> volume 0 to 70 (0dB to -70dB)
```

## Standby

### Set amplifier standby

command

```
#|F001|web|SSBYzz|standby|U|<CR><LF> zz zone
```

standby 0 or 1 (1 = standby)

reply:

```
#|web|F001|SSBYzz|+|U|<CR><LF> #|ALL|F001|SBYzz|standby|U|<CR><LF>
```

### Get amplifier standby

command

```
#|F001|web|GSBYzz|standby|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|SBYzz|standby|U|<CR><LF> standby 0 or 1 (1 = standby)
```

### Set standby time

command

```
#|F001|web|SSBTzz|time|U|<CR><LF> zz zone
```

time 0 to 999 minutes (0 = standby disabled)

reply:

```
#|web|F001|SSBTzz|+|U|<CR><LF> #|ALL|F001|SBTzz|time|U|<CR><LF>
```

### Get standby time

command

```
#|F001|web|GSBTzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|SBTzz|time|U|<CR><LF>
```

time 0 to 999 minutes (0 = standby disabled)

## Limiters

### Set peak power limiter

command

```
#|F001|web|SPPLzz|power|<CR><LF> zz zone
```

power 10 to 80W or 160W ( only for 4/8Ohm, not for 70V and 100V )

reply:

```
#|web|F001|SPPLzz|+|U|<CR><LF> #|ALL|F001|PPLzz|power|U|<CR><LF>
```

### Get Peak power limiter

command

```
#|F001|web|GPPLzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|PPLzz|power|U|<CR><LF>
```

power 10 to 80W or 160W ( only for 4/8Ohm, not for 70V and 100V )

## Output type

### Set output type

command

```
#|F001|web|SOTzz|t|<CR><LF> zz zone
```

t 1 to 6 ( 1 = 100v, 2 = 70V, 3 = 2 Ohm, 4 = 4 Ohm, 5 = 8 Ohm, 6 = 16 Ohm )

2 Ohm not supported reply:

```
#|web|F001|SOTzz|+|U|<CR><LF> #|ALL|F001|OTzz|t|U|<CR><LF>
```

### Get output type

command

```
#|F001|web|GOTzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|OTzz|t|U|<CR><LF>
```

t 1 to 6 ( 1 = 100v, 2 = 70V, 3 = 2 Ohm, 4 = 4 Ohm, 5 = 8 Ohm, 6 = 16 Ohm )

2 Ohm not supported

## Antiphase

### Set Antiphase

command

```
#|F001|web|SAPHzz|l^r|U|<CR><LF> zz = zone
```

l,r = 0,1 l is used when mono ( 100V or 70V)

reply:

```
#|web|F001|SAPHzz|+|U|<CR><LF> #|ALL|F001|APHzz|l^r|U|<CR><LF>
```

### Get Antiphase

command

```
#|F001|web|GAPHzz||U|<CR><LF> zz = zone
```

reply:

```
#|web|F001|APHzz|l^r|U|<CR><LF>
```

l,r = 0,1 l is used when mono ( 100V or 70V)

## Speaker filter

### Set speaker filter

command

```
#|F001|web|SSPFzz|nr^type^freqz^freqp^qz^qp^boost^gain|U|<CR><LF> zz zone 1 or 2
```

nr 1 - 12 type

0 DISABLED

1 PEAKING

2 LOWPASS

3 HIGHPASS

4 LINKWITZ\_TRANSFORM

5 ALLPASS

6 LOWSHELF  
7 HIGHSHELF  
10 FO\_LOWPASS  
11 FO\_HIGHPASS  
freqz 10-20000  
freqp 10-20000  
qz 10 - 150 (0.1 to 1.5)  
qp 10 - 150 (0.1 to 1.5)  
boost -300 to 300 (-30dB to +30dB) gain -100 to 100 (-10dB to +10dB)

reply:

```
#|web|F001|SSPFzz|+|U|<CR><LF> #|ALL|F001|SPFzz|nr^type^freqz^freqp^qz^qp^boost^gain|U|<CR><LF>
```

### **Get speaker filter**

command

```
#|F001|web|GSPFzz|nr|U|<CR><LF> zz zone 1 or 2  
nr 1 - 12
```

reply:

```
#|web|F001|SPFzz|nr^type^freqz^freqp^qz^qp^boost^gain|U|<CR><LF> nr 1 - 12  
type  
0 DISABLED  
1 PEAKING  
2 LOWPASS  
3 HIGHPASS  
4 LINKWITZ_TRANSFORM  
5 ALLPASS  
6 LOWSHELF  
7 HIGHSHELF  
10 FO_LOWPASS  
11 FO_HIGHPASS  
freqz 10-20000  
freqp 10-20000  
qz 10 - 150 (0.1 to 1.5)  
qp 10 - 150 (0.1 to 1.5)  
boost -300 to 300 (-30dB to +30dB) gain -100 to 100 (-10dB to +10dB)
```

### **Clear all speaker filter**

command

#|F001|web|CLRAzz|nr|U|<CR><LF> zz zone 1 or 2

nr 1 - 12

reply:

#|web|F001|CLRAzz|+|U|<CR><LF> #|ALL|F001|SPFzz|1^0^freqz^freqp^qz^qp^boost^gain|U|<CR><LF> to

#|ALL|F001|SPFzz|12^0^freqz^freqp^qz^qp^boost^gain|U|<CR><LF>

### Get all speaker filter

command

#|F001|web|GSPFALLzz|0|U|<CR><LF> zz zone 1 or 2

reply:

#|web|F001|SPFALLzz|type1^freqz1^freqp1^qz1^qp1^boost1^gain1^ ^type12^freqz12^freqp12^qz12^qp12^boost12^gain12|U  
<CR><LF>

type

0 DISABLED

1 PEAKING

2 LOWPASS

3 HIGHPASS

4 LINKWITZ\_TRANSFORM

5 ALLPASS

6 LOWSHELF

7 HIGHSHELF

10 FO\_LOWPASS

11 FO\_HIGHPASS

freqz 10-20000

freqp 10-20000

qz 10 - 150 (0.1 to 1.5)

qp 10 - 150 (0.1 to 1.5)

boost -300 to 300 (-30dB to +30dB) gain -100 to 100 (-10dB to +10dB)

## Talkover

### Set Talkover enable/input

command

#|F001|web|STOEzz|e^i|U|<CR><LF> zz zone

e = 0,1 0 = disable, 1 = enable

i = 1 to 8

1 = mic

2 = line/module  
3 = Dante1  
4 = Dante2  
5 = Dante1\_2  
6 = Dante3  
7 = Dante4  
8 = Dante3\_4

reply:

```
#|web|F001|STOEzz|+|U|<CR><LF> #|ALL|F001|TOEzz|e^i|U|<CR><LF>
```

### **Get Talkover enable/input**

command

```
#|F001|web|GTOEzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|TOEzz|e^i|U|<CR><LF> e = 0,1 0 = disable, 1 = enable
```

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

### **Set Talkover parameters**

command

```
#|F001|web|STOzz|e^i^t^i|^a^h^d|U|<CR><LF>
```

zz zone

e = 0,1 0 = disable, 1 = enable

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

t = threshold level in dB

il = input ducking level in dB

a = attack in ms (100 to 9999) h = hold in ms (100 to 9999) d = decay in ms (100 to 9999)

reply:

```
#|web|F001|STOzz|+|U|<CR><LF> #|ALL|F001|TOzz|e^i^t^il^a^h^d|U|<CR><LF>
```

## Get Talkover parameters

command

```
#|F001|web|GTOzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|TOzz|e^i^t^il^a^h^d|U|<CR><LF> e = 0,1 0 = disable, 1 = enable
```

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

t = threshold level in dB

il = input ducking level in dB a = attack in ms

h = hold in ms d = decay in ms

## Prio

### Set Prio enable/input

command

```
#|F001|web|SPREzz|e^i|U|<CR><LF> zz zone
```

e = 0,1 0 = disable, 1 = enable

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

reply:

```
#|web|F001|SPREzz|+|U|<CR><LF> #|ALL|F001|PREzz|e^i|U|<CR><LF>
```

### Get Prio enable/input

command

```
#|F001|web|GPREzz|0|U|<CR><LF> zz zone
```

```
reply: #|web|F001|PREzz|e^i|U|<CR><LF>
```

e = 0,1 0 = disable, 1 = enable

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

### Set Prio parameters

command

```
#|F001|web|SPRzz|e^i^t^l^a^h^d|U|<CR><LF> zz zone
```

e = 0,1 0 = disable, 1 = enable

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

t = threshold level in dB l = prio level in dB

a = attack in ms (100 to 9999) h = hold in ms (100 to 9999) d = decay in ms (100 to 9999)

reply:

```
#|web|F001|STOzz|+|U|<CR><LF> #|ALL|F001|TOzz|e^i^t^l^a^h^d|U|<CR><LF>
```

### Get Prio parameters



command

```
#|F001|web|GPRzz|0|U|<CR><LF> zz zone
```

reply:

```
#|web|F001|PRzz|e^i^t^l^a^h^d|U|<CR><LF> e = 0,1 0 = disable, 1 = enable
```

i = 1 to 8

1 = mic

2 = line/module

3 = Dante1

4 = Dante2

5 = Dante1\_2

6 = Dante3

7 = Dante4

8 = Dante3\_4

t = threshold level in dB l = prio level in dB

a = attack in ms h = hold in ms d = decay in ms

## Device name

### Get name

command

```
#|F001|web|GNM|0|U|<CR><LF>
```

reply:

```
#|web|F001|NM|n|U|<CR><LF> n = name, max 31 char
```

### Set name

command

```
#|F001|web|SNM|n|U|<CR><LF>
```

n = name of zone, max 31 char

reply:

```
#|web|F001|SNM|+|U|<CR><LF> #|ALL|F001|NM|n|U|<CR><LF>
```

n = name of zone, max 31 char

## Dante

### Get Dante device id

command

```
#|F001|web|GDNT|0|U|<CR><LF>
```

reply:

```
#|web|F001|DNT|id|U|<CR><LF>
```

```
id = "ANI", "ANI44", "ANI22", "ANI44x", "ANI22x"
```