



MA-725F/MM-700F INTERNET PROTOCOL API

Rev 1.3

Document History

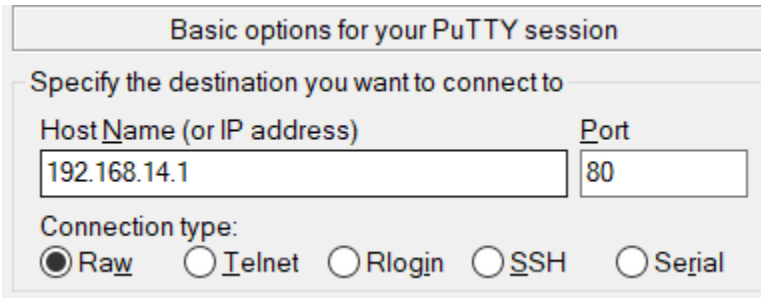
Revision	Date	Author	Comment
1.0	2019/4/11	Masaki Omata	First draft
1.2	2020/02/25	Masaki Omata	Add Priority Control and Status API
1.3	2020/03/12	Masaki Omata	Fix typo in priority 2 example command on Page 7

Contents

1. Control Center	5
2. Source Select	5
3. Volume Control	6

Note:

1. The IP address used in the example in this document is 192.168.14.1. Make sure to use the correct IP address.
2. Establish a raw connection to the desired IP address and port 80. Below is a PuTTY example.



Basic options for your PuTTY session

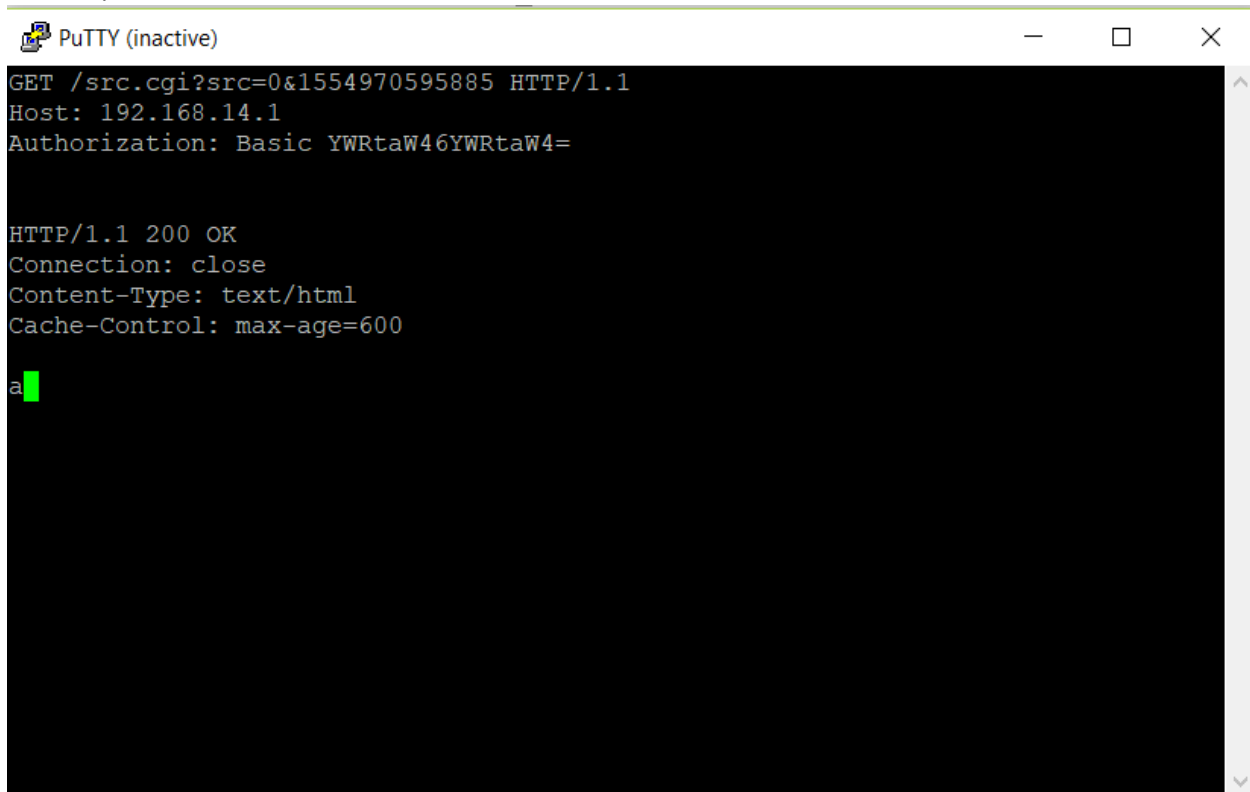
Specify the destination you want to connect to

Host Name (or IP address)	Port
192.168.14.1	80

Connection type:

Raw Telnet Rlogin SSH Serial

3. Example of successful command sent.



```
PuTTY (inactive)
GET /src.cgi?src=0&1554970595885 HTTP/1.1
Host: 192.168.14.1
Authorization: Basic YWRtaW46YWRtaW4=

HTTP/1.1 200 OK
Connection: close
Content-Type: text/html
Cache-Control: max-age=600

a
```

4. Data Format

```
GET /[$1].cgi?[$1-1]=[$2]&[$3] HTTP/1.1  
Host: 192.168.14.1  
Authorization: Basic [$4][$5]
```

\$1 = command type

\$1-1 = command subtype (only for volume control)

\$2 = parameter value

\$3 = random number. Suggest using current date and time.

\$4 = hashed username/password. Currently set as "YWRtaW46YWRtaW4=". Will provide a combination in the future.

\$5 = end of header. Must be 0xd 0xa twice.

1. Control Center

\$1 = \$1-1	\$2 (see table 1)	\$3	\$4
ctrl	On/off zone	Random Number	YWRtaW46YWRtaW4=

Table 1: \$2 values	Description
0	Zone 1 on
1	Zone 1 off
2	Zone 2 on
3	Zone 2 off
4	Zone 3 on
5	Zone 3 off
6	Zone 4 on
7	Zone 4 off

Example, turn on control for zone 4
 GET /ctrl.cgi?ctrl=6&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

2. Source Select

\$1 = \$1-1	\$2 (see table 2)	\$3	\$4
src	Source select	Random Number	YWRtaW46YWRtaW4=

Table 2: \$2 values	Description
0	Zone 1, Source 1
1	Zone 1, Source 2
2	Zone 1, Source 3
3	Zone 1, Source 4
4	Zone 2, Source 1
5	Zone 2, Source 2
6	Zone 2, Source 3
7	Zone 2, Source 4
8	Zone 3, Source 1
9	Zone 3, Source 2
a	Zone 3, Source 3
b	Zone 3, Source 4
c	Zone 4, Source 1
d	Zone 4, Source 2
e	Zone 4, Source 3
f	Zone 4, Source 4

Example, Select source 4 for Zone 1
 GET /src.cgi?src=3&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

3. Volume Control

\$1	\$1-1	\$2 (see table 3)	\$3	\$4
Zone index v1/v2/v3/v4	vol	Volume Level	Random Number	YWRtaW46YWRtaW4=

Table 3: \$2 values	Description
0	Volume level 0
1	Volume level 1
2	Volume level 2
3	Volume level 3
4	Volume level 4
5	Volume level 5
6	Volume level 6
7	Volume level 7
8	Volume level 8
9	Volume level 9
a	Volume level 10

Example, set zone 3 volume level to 4
 GET /v3.cgi?vol=4&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

4. Priority Select

Smart Control

\$1	\$1-1	\$2 (see table 4)	\$3	\$4
priority	ctrl	Smart On/Off	Random Number	YWRtaW46YWRtaW4=

Table 3: \$2 values	Description
0	Smart Control, On
1	Smart Control, Off

Example, Turn Priority Smart Control Off
 GET /priority.cgi?ctrl=1&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Priority 1

\$1	\$1-1	\$2 (see table 5)	\$3	\$4
priority1	ctrl	zone select	Random Number	YWRtaW46YWRtaW4=

Table 5: \$2 values	Description
0	Zone 1, On
1	Zone 1, Off
2	Zone 2, On
3	Zone 2, Off
4	Zone 3, On
5	Zone 3, Off
6	Zone 4, On
7	Zone 4, Off

Example, Turn Priority1 On for Zone 3
 GET /priority1.cgi?ctrl=4&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Priority 2

\$1	\$1-1	\$2 (see table 6)	\$3	\$4
Priority2	ctrl	zone select	Random Number	YWRtaW46YWRtaW4=

Table 6: \$2 values	Description
0	Zone 1, On
1	Zone 1, Off
2	Zone 2, On
3	Zone 2, Off
4	Zone 3, On
5	Zone 3, Off
6	Zone 4, On
7	Zone 4, Off

Example, Turn Priority2 Off for Zone 4
 GET /priority2.cgi?ctrl=7&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

5. Status API

Get current volume

\$1	\$1-1	\$2 (see table 7)	\$3	\$4
status_vol	stat	zone select	Random Number	YWRtaW46YWRtaW4=

Table 7: \$2 values	Description
0	All Zones

Example, get all zones volume info
 GET /status_vol.cgi?stat=0&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Data returned in **status_vol.cgi**

Z1:22,Z2:33,Z3:01,Z4:07

Format "Z1:%02d,Z2:%02d,Z3:%02d,Z4:%02d"

The volume ranges from 0 to 63 max. The value returned is fixed 2 digits with zero prefix if necessary.

Get priority1 settings

\$1	\$1-1	\$2 (see table 8)	\$3	\$4
status_pri1	stat	zone select	Random Number	YWRtaW46YWRtaW4=

Table 8: \$2 values	Description
0	All Zones

Example, get Priority1 all zones control settings
 GET /status_pri1.cgi?stat=0&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Data returned in **status_pri1.cgi**

Z1:0,Z2:1,Z3:0,Z4:1

0: On

1: Off

Get priority2 settings

\$1	\$1-1	\$2 (see table 9)	\$3	\$4
status_pri2	stat	zone select	Random Number	YWRtaW46YWRtaW4=

Table 9: \$2 values	Description
0	All Zones

Example, get Priority2 all zones control settings
 GET /status_pri2.cgi?stat=0&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Data returned in **status_pri2.cgi**

Z1:0,Z2:1,Z3:0,Z4:1

0: On

1: Off

Get Source Select settings

\$1	\$1-1	\$2 (see table 10)	\$3	\$4
status_src	stat	zone select	Random Number	YWRtaW46YWRtaW4=

Table 10: \$2 values	Description
0	All Zones

Example, get Source Select settings
 GET /status_src.cgi?stat=0&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Data returned in **status_src.cgi**

Z1:0,Z2:1,Z3:0,Z4:1

0: Input 1

1: Input 2

2: Input 3

3: Input 4

Get Level Meter

\$1	\$1-1	\$2 (see table 11)	\$3	\$4
status_lm	stat	zone select	Random Number	YWRtaW46YWRtaW4=

Table 11: \$2 values	Description
0	All Zones

Example, get Level Meter settings
 GET /status_lm.cgi?stat=0&1554970595885 HTTP/1.1
 Host: 192.168.14.1
 Authorization: Basic YWRtaW46YWRtaW4=

Data returned in **status_lm.cgi**

LM0:717,LM1:758,LM2:762,LM3:694,LM4:714,LM5:718,LM6:990,LM7:990,LM8:990,LM9:990

Table 12: Level Meter	Description
LM0	Priority 1 (Mic)
LM1	Priority 2
LM2	Line In 1
LM3	Line In 2
LM4	Line In 3
LM5	Line In 4
LM6	Line Out 1
LM7	Line Out 2
LM8	Line Out 3
LM9	Line Out 4

Range 0 ~ 990 (-99.0 ~ 0.0dB)

Example:

Table 13: Volume value	Description
990	0dB
870	-12dB
250	-74dB
0	-99dB