



## LUNA-F

# Flexible network audio matrix processor

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## Luna-F Commands List

### ASCII Commands (Luna F 1.2.0)

This is the list of ASCII Commands supported by this device. An ASCII command always follows the same structure:

```
# | Destination | Source | Type ^ Target ^ Command | Arguments | CRC | CRLF
```

This format uses 3 separator characters for different levels of separating each value in the message:

- Message separator '|':  
This separates a message in 7 blocks (if you include the start '#' and end <CRLF>)
- Block separator '^':  
This splits a block into logical elements. This is used to split the command in the message type, 'command' and 'target'
- Value separator '>':  
This splits up a logical single value in their primitives, for example: a target consists of a channel type and a channel index, split by '>'

**Messages are Case sensitive, if the example shows the text in uppercase, this should always be uppercase!**

### Destination

The target device. This consists of 2 parts: Device>Address.

## Device

This is the device type: LUNA\_F

## Address

This is the user-configurable device address, default: 1. You can also leave this field empty, this results in all Luna F devices that receive this command responding.

Examples	Destination
default destination	LUNA_F>1
broadcast to all Luna F devices	LUNA_F

## Device Matching

If the device type or address does not match, the message will be ignored. Device Address 0 is a special address and will always match (this can be seen as a broadcast)

Desination	Device address: LUNA_F>2	Remarks
LUNA_F>2	Destination Matches Device	this is an exact match
LUNA_F>1	Message ignored	the destination address does not match
LUNA_F	Destination Matches Device	the destination address will always match
LUNA_F>0	Destination Matches Device	Equivalent to LUNA_F
CLIENT>2	Message ignored	the device type does not match
CLIENT	Message ignored	the device type does not match

## Source (optional)

The source address is optional when sending, but the device will always fill this field with its own address.

<b>Examples</b>	<b>sent message</b>	<b>response message LUNA_F&gt;2</b>
broadcast to a Luna F	#   LUNA_F     ...   <CRLF>	#     LUNA_F>2     ...   <CRLF>
send to a specific Luna F	#   LUNA_F>2     ...   <CRLF>	#     LUNA_F>2     ...   <CRLF>
use a source address in the request message	#   LUNA_F   CLIENT>1   ...   <CRLF>	#   CLIENT>1   LUNA_F>2   ...   <CRLF>

## Type

The type explains what the message wants to do. There are 3 supported message types:

<b>Type</b>	<b>From</b>	<b>To</b>	<b>Explanation</b>
SET_REQ	CLIENT	Luna F	Change a setting in the Luna F
GET_REQ	CLIENT	Luna F	Request the current status of a setting in the Luna F
GET_RSP	Luna F	CLIENT	Response to either a GET_REQ or SET_REQ, if the request was valid

## Command, Target, Arguments

These 3 parameters are explained together because they influence each other. The command dictates the meaning of the argument, while the target distinguishes which exact setting you want to change. the target can also influence the valid range of the argument.

Some commands (like the mixer) can have a range of arguments (for the mixer: all mixer volumes are individual arguments). In this case, the argument looks like `idx>val [ ^idx2>val2 ]`, where the part in between the brackets [] can appear 0 or more times.

- idx, idx2, ...: the argument index
- val, val2, ...: the value at the specified index

## VOLUME

Set a single Volume in dB.

**Argument (volume)**

The requested Volume in dB.

Target	Argument	Example (default value)
INPUT_LINE>1>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>2>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>3>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>4>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>5>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>6>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>7>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_LINE>8>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_I <CRLF>
INPUT_FLEX>1>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>2>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>3>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>4>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>5>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>6>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>7>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>
INPUT_FLEX>8>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_F <CRLF>

INPUT_DANTE>1>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>2>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>3>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>4>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>5>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>6>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>7>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>8>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>9>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>10>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>11>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>12>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>13>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>14>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>15>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>16>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>17>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>

INPUT_DANTE>18>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>19>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>20>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>21>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>22>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>23>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>24>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>25>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>26>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>27>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>28>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>29>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>30>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>31>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>32>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>33>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>34>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>

INPUT_DANTE>35>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>36>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>37>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>38>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>39>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>40>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>41>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>42>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>43>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>44>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>45>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>46>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>47>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>48>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>49>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>50>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>51>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>



INPUT_DANTE>52>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>53>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>54>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>55>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>56>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>57>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>58>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>59>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>60>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>61>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>62>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>63>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_DANTE>64>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_D <CRLF>
INPUT_OS>1>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_C
INPUT_OS>2>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_C
INPUT_GENERATOR>1>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^INPUT_C <CRLF>
ZONE>1>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>1>

ZONE>2>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>2>
ZONE>3>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>3>
ZONE>4>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>4>
ZONE>5>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>5>
ZONE>6>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>6>
ZONE>7>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>7>
ZONE>8>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>8>
ZONE>9>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>9>
ZONE>10>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>10>
ZONE>11>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>11>
ZONE>12>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>12>
ZONE>13>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>13>
ZONE>14>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>14>
ZONE>15>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>15>
ZONE>16>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>16>
ZONE>17>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>17>
ZONE>18>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>18>

ZONE>19>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>19
ZONE>20>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>20
ZONE>21>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>21
ZONE>22>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>22
ZONE>23>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>23
ZONE>24>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>24
ZONE>25>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>25
ZONE>26>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>26
ZONE>27>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>27
ZONE>28>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>28
ZONE>29>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>29
ZONE>30>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>30
ZONE>31>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>31
ZONE>32>VOLUME>1	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>32

## ROUTE

Change the routing of a zone

### Argument (input)

The input that is selected in that zone. -1 = Mixed (not settable), 0 = OFF, 1 = input 1 ,...

Target	Argument	Example (default value)
ZONE>1>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>1>MIXER>1 ^ROUTE   <CRLF>
ZONE>2>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>2>MIXER>1 ^ROUTE   <CRLF>
ZONE>3>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>3>MIXER>1 ^ROUTE   <CRLF>
ZONE>4>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>4>MIXER>1 ^ROUTE   <CRLF>
ZONE>5>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>5>MIXER>1 ^ROUTE   <CRLF>
ZONE>6>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>6>MIXER>1 ^ROUTE   <CRLF>
ZONE>7>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>7>MIXER>1 ^ROUTE   <CRLF>
ZONE>8>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>8>MIXER>1 ^ROUTE   <CRLF>
ZONE>9>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>9>MIXER>1 ^ROUTE   <CRLF>
ZONE>10>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>10>MIXER>1 ^ROUTE   <CRLF>
ZONE>11>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>11>MIXER>1 ^ROUTE   <CRLF>
ZONE>12>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>12>MIXER>1 ^ROUTE   <CRLF>
ZONE>13>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>13>MIXER>1 ^ROUTE   <CRLF>
ZONE>14>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>14>MIXER>1 ^ROUTE   <CRLF>
ZONE>15>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>15>MIXER>1 ^ROUTE   <CRLF>
ZONE>16>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>16>MIXER>1 ^ROUTE   <CRLF>

ZONE>17>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>17>MIXER>1^ROUTE <CRLF>
ZONE>18>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>18>MIXER>1^ROUTE <CRLF>
ZONE>19>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>19>MIXER>1^ROUTE <CRLF>
ZONE>20>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>20>MIXER>1^ROUTE <CRLF>
ZONE>21>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>21>MIXER>1^ROUTE <CRLF>
ZONE>22>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>22>MIXER>1^ROUTE <CRLF>
ZONE>23>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>23>MIXER>1^ROUTE <CRLF>
ZONE>24>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>24>MIXER>1^ROUTE <CRLF>
ZONE>25>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>25>MIXER>1^ROUTE <CRLF>
ZONE>26>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>26>MIXER>1^ROUTE <CRLF>
ZONE>27>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>27>MIXER>1^ROUTE <CRLF>
ZONE>28>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>28>MIXER>1^ROUTE <CRLF>
ZONE>29>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>29>MIXER>1^ROUTE <CRLF>
ZONE>30>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>30>MIXER>1^ROUTE <CRLF>
ZONE>31>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>31>MIXER>1^ROUTE <CRLF>
ZONE>32>MIXER>1	min: -1, max: 24	#   LUNA_F>1     SET_REQ^ZONE>32>MIXER>1^ROUTE <CRLF>

MUTE

Mute an audio channel

**Argument (enabled)**

The audio channel muted

Target	Argument	Example (default value)
INPUT_LINE>1>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>2>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>3>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>4>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>5>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>6>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>7>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_LINE>8>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>1>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>2>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>3>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>4>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>5>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>6>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>7>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_FLEX>8>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>

INPUT_DANTE>1>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>2>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>3>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>4>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>5>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>6>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>7>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>8>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>9>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>10>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>11>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>12>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>13>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>14>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>15>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>16>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>17>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>



INPUT_DANTE>18>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>19>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>20>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>21>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>22>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>23>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>24>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>25>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>26>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>27>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>28>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>29>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>30>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>31>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>32>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>33>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>34>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>

INPUT_DANTE>35>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>36>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>37>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>38>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>39>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>40>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>41>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>42>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>43>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>44>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>45>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>46>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>47>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>48>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>49>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>50>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>51>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>

INPUT_DANTE>52>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>53>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>54>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>55>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>56>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>57>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>58>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>59>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>60>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>61>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>62>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>63>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_DANTE>64>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
INPUT_OS>1>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU
INPUT_OS>2>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU
INPUT_GENERATOR>1>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^INPU <CRLF>
ZONE>1>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE

ZONE>2>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>3>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>4>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>5>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>6>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>7>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>8>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>9>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>10>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>11>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>12>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>13>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>14>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>15>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>16>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>17>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>18>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE

ZONE>19>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>20>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>21>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>22>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>23>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>24>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>25>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>26>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>27>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>28>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>29>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>30>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>31>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE
ZONE>32>VOLUME>1	options: TRUE,FALSE	#   LUNA_F>1     SET_REQ^ZONE

## MIXER

Mixer slider for zones

### Argument (volume)

Mixing volume

<b>Target</b>	<b>Argument index</b>	<b>Argument</b>	<b>Example (default value)</b>
ZONE>1>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>1>MI <CRLF>
ZONE>2>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>2>MI <CRLF>
ZONE>3>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>3>MI <CRLF>
ZONE>4>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>4>MI <CRLF>
ZONE>5>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>5>MI <CRLF>
ZONE>6>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>6>MI <CRLF>
ZONE>7>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>7>MI <CRLF>
ZONE>8>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>8>MI <CRLF>
ZONE>9>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>9>MI <CRLF>
ZONE>10>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>10>MI <CRLF>
ZONE>11>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>11>MI <CRLF>
ZONE>12>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>12>MI <CRLF>
ZONE>13>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>13>MI <CRLF>
ZONE>14>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>14>MI <CRLF>
ZONE>15>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>15>MI <CRLF>
ZONE>16>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>16>MI <CRLF>

ZONE>17>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>17>M <CRLF>
ZONE>18>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>18>M <CRLF>
ZONE>19>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>19>M <CRLF>
ZONE>20>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>20>M <CRLF>
ZONE>21>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>21>M <CRLF>
ZONE>22>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>22>M <CRLF>
ZONE>23>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>23>M <CRLF>
ZONE>24>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>24>M <CRLF>
ZONE>25>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>25>M <CRLF>
ZONE>26>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>26>M <CRLF>
ZONE>27>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>27>M <CRLF>
ZONE>28>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>28>M <CRLF>
ZONE>29>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>29>M <CRLF>
ZONE>30>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>30>M <CRLF>
ZONE>31>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>31>M <CRLF>
ZONE>32>MIXER>1	min: 1, max: 16	min: -90, max: 0	#   LUNA_F>1     SET_REQ^ZONE>32>M <CRLF>

# CRC

The CRC block is calculated over the message starting from and including the first pipe "|", up to and including the last pipe before the CRC Block. These CRC's can ensure message integrity if desired.

CRC Type	Configuration	Format	Example
None	/	U	#  LUNA_F>1    SET_REQ^INPUT_LINE>1>VOLU <CRLF>
CRC16-ARC	<ul style="list-style-type: none"> <li>input reflected</li> <li>output reflected</li> <li>polynomial: 0x8005</li> <li>initial value: 0x0000</li> <li>final exor: 0x0000</li> </ul>	XXXX	#  ALL   SET_REQ^INPUT_LINE>1^VOLUME 0
CRC32	<ul style="list-style-type: none"> <li>input reflected</li> <li>output reflected</li> <li>polynomial: 0x4C11DB7</li> <li>initial value: 0xFFFFFFFF</li> <li>final exor: 0xFFFFFFFF</li> </ul>	XXXX	#  ALL   SET_REQ^INPUT_LINE>1^VOLUME 0

The examples in the table above are example for calculating the CRC, they may not be a valid command for the Luna F

The CRC can ensure data integrity across unreliable data channels (RS232, RS485), but they are by no means a security measure! If someone has the knowledge and means to maliciously alter a message, correcting the CRC becomes trivial for the attacker. We support different kinds of CRC for maximum flexibility, but we recommend not using any so you do not get a false sense of security.



## Stop bytes

The final 2 characters are denoted as <CRLF>, they mean "Carriage Return, Line Feed" or simply put a new line. Depending on the tool used to create the command, you can have different representations:

- CRLF
- `\r\n`
- `0x0D 0x0A`

We support both CRLF and LF only