

myMix Personal Monitor Mixer and Multitrack Recorder New Product Description

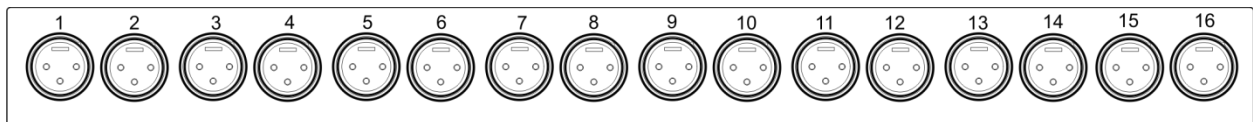
System Output Box

V1-1, CG, Mar19,2010.

[changes in red]

Overview: 19" unit that connects to the myMix network (own MAC address) and is capable of receiving up to 16 myMix network channels or submix channels and converts them individually to balanced line level outputs. This allows all signals that are directly feed into the individual myMix units to be available for other use (e.g. FOH console).

Sketch:



Front view



Rear View

Specs:

19", 1U metal housing

Balanced XLR outputs, line level (max. output level +21dBu), audio specs as myMix.

External power supply or internal power supply 100V to 240V 50/60Hz

Integrated network switch (100MBps)

Approvals: CE, FCC, UL,

Cost Target: 19" housing + psu (\$17) + pcb board (\$60)+ (\$3) = \$80 * 1,2 = \$96 total mfg cost max.

Annual quantity: conservative estimate 1000 units (up to 10% of annual myMix sales)

Schedule:

Launch at Infocomm June 2010 with 2 working prototypes (engineering samples)

Prototypes: 5 engineering samples: 2 MOVEK, 2 Lab-X, 1 Vtech.

Production Start: Pilot (25) July, 1st Series (100) September, 2nd series (400) October 2010.

Alternative Hardware Version:

Additional display with encoder(s) for assignment, Channel Signal Present and Clip LED per output.

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For the output units there will be a new menu point: OUTPUTS

The network shall be able to accept at least 8 output boxes.

Naming an output box shall be possible when connected directly to one myMix (and nothing else) via the Output menu. The box shows up (no other devices on the network allowed in that mode) and can then be selected and named.

Selecting the OUTPUTS menu on a unit in the network shows a list of all active output devices on the network (default name: OUTPUT DEFAULT), selecting and pressing the output box opens the OUTPUT ASSIGN PAGE.

Sketch of a possible implementation:

REMOTE OUTPUT ASSIGNMENT			
DAVE GUITAR 1	DAVE VOCAL 2	JACK BASS 3	TIM KICK 4
TIM OH 5	FREE 6	FREE 7	FREE 8
FREE 9	FREE 10		

BACK

ASSIGN INPUT 1

ASSIGN INPUT 2

DEASSIGN

DEFAULT PROFILE 1

01:10:01

An alternative could be to allow the full assignment from every unit on the network. The Display would show all available units/channel names, select+press would open the scroll bar to select the desired output channel. (In that case the list needs to be permanently updated and only show free channels... might get tricky).

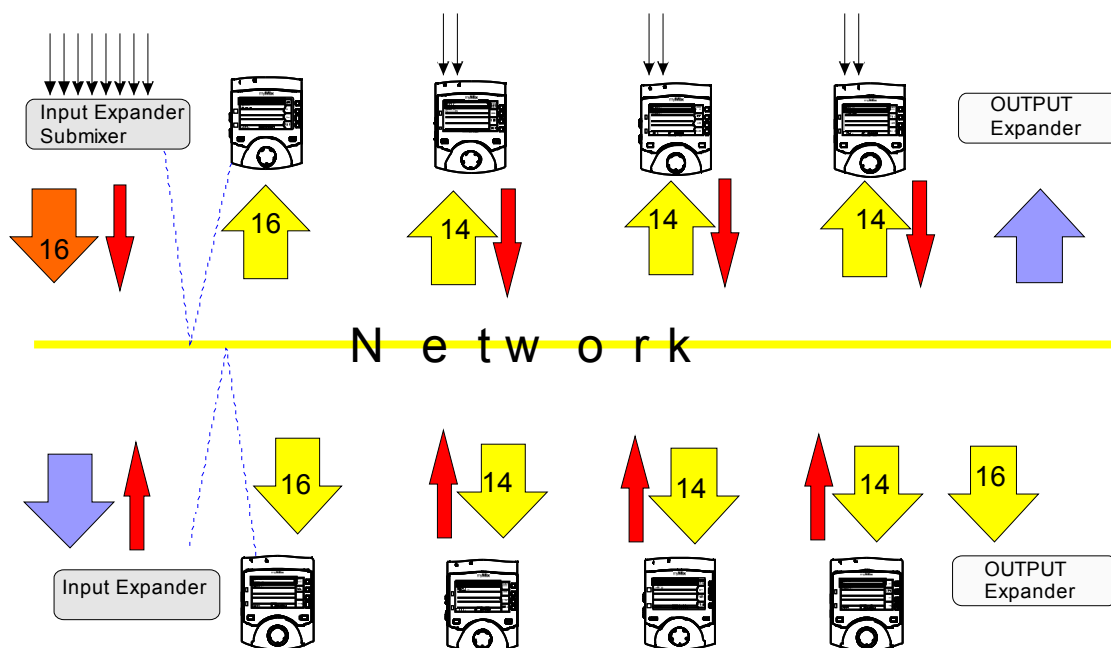
Already assigned outputs show the unit and channel name, they can't be selected.

Selecting a free output channel then allows to assign either Input 1 or input 2 of the unit that is used for the assignment. The output assignment shall be part of a profile. In the event that two units are connecting to the network with the same assignment on the same output box, the assignment shall be cancelled and the user prompted: "output channel double assigned, please assign new".

The "tbd Remote Software" for myMix shall be able to make these assignments directly from a central point.

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General system channel overview

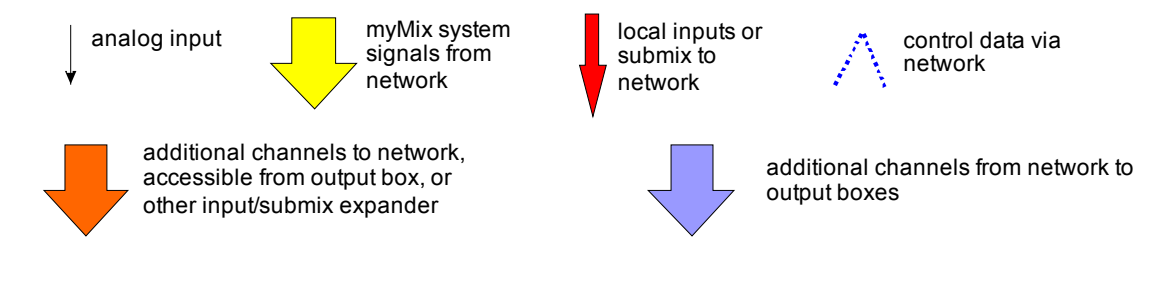


There are 16 main channels and 2 or 3 x 16 sub channels on the myMix network.

An input expander box has (8/16) input channels that can be sub mixed to 2 channels. These channels become the 2 system channels for the myMix unit controlling the input box (so instead the two local mic/line inputs that unit is now seen with the two sub mixed channels). The individual signals of the input expander are also transmitted to the network, but as a “sub layer” usually not visible to standard myMix units unless they are (separate menu) selected as one of the max. 16 csignals each unit can mix.

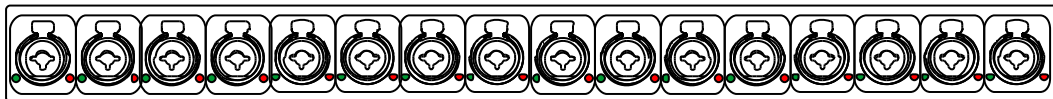
The sub channels are also available for dedicated output boxes.

An output box can be selected to convert the 16 mymix channels or the 16 sub channels of an input expander box (e.g. all individual drum mics).



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Input Expander/Submix Box



19". 1U, (8 or) 16 channels.

Mic/Line Inputs, Signal present and Clip LED, audio data/specs as myMix.

Input gain adjustable via network (DCA) Two basic applications:

1) Submixer (selectable on unit)

Takes mic and line signals that can be sub mixed with a assigned myMix to 2 channels (Stereo mix or dual channel), these channels are not visible for the standard network (or only through a separate page, can be powerful, but also complicates things a lot), but for an assigned output box.

Channel assignment- new Menu point: INPUT EXPANDER/SUBMIX that has following sub menus:

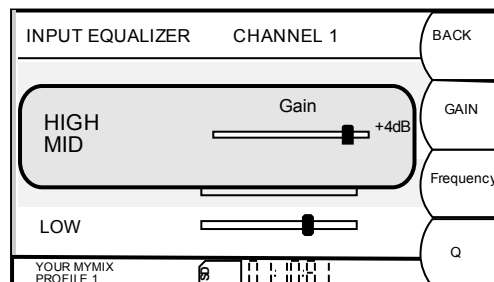
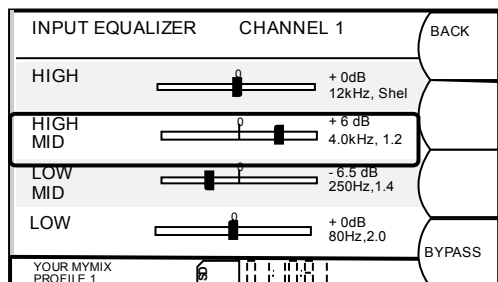
SELECT: Selecting the input expander that is controlled (switches off the local analogue inputs)

IE input naming (phantom power, stereo pairs..)

A channel of the submixer needs to have:

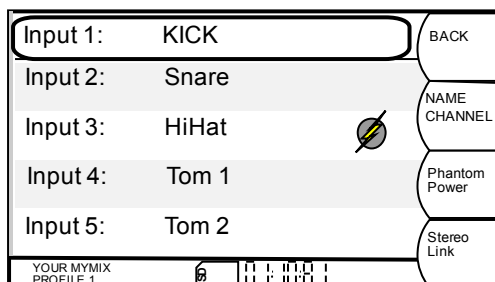
Name, Phantom Power on/off, Gain (DCA), Stereo Link (1-2,3-4, 5-6,...)

Volume, 4-Band EQ (sketch see below) , FX send (no delay needed), Pan (or Balance)



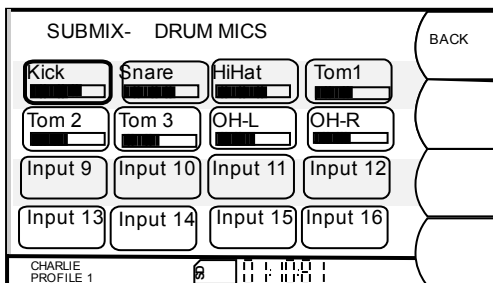
SUBMIX might have a) a separate submix page for mixing

b) displayed as additional channels (color coded) on the main mix page (submix output also appears as a normal myMix channel).



Sketch for input naming, phantom power, and stereo link, Gain control t.b.d.

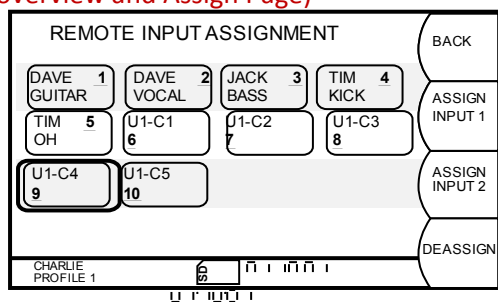
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Sketch for sub mixing page

- 2) **Input Expander / Remote input box** (selectable on unit, operation mode of IE box is either or).
 - a) Serves as remote input box to replace the inputs on the individual myMix units (as is, no submixing).
 - b) Serves as input expander to allow inputs on the network without bringing them on via a myMix unit.

Signals can be taken from a source (e.g. wireless receiver), split or console (direct signals, submixes etc..) and be fed into the system. Signals need a myMix as "Host" this myMix assigns its input to a **input** from the IE, instead of using a local input. **When a IE is on the network there can be a separate menu (and only then) for assignment . The max is 16 channels to choose, by default these are main channels, but sub channels can be assigned as well as main channels can be selected. Maybe there is a "Network overview and Assign Page)**



Sketch for possible Input assignment from a myMix

Should show all available channel options on the network. Selected Inputs get a indication, available but not selected channels are in a different color (or so).

If 16 is reached : " 16ch max, please deselect unwanted channels before assigning new channels).

Schedule: ~~after Output Box~~ t.b.d. might be first project.

Target cost: housing + psu(\$17), pcb board (\$ 85 + \$3) = \$105 x 1,2 =126.

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MIDI Manager

Box that has MIDI in, Out , Through and a Ethernet port.

It allows MIDI Data to be on the myMix network.

myMix units get a new Menu: MIDI, here the TX and RX channels are selected, default is OFF.

MIDI shall be able to send /receive data for:

All individual channel controls (volume, tone, fx send, pan/bal, mute, solo)

Recall profiles (for use as presets)

Master Mute, Record.

Schedule: t.b.d.

Target cost: t.b.d.

Alternative Solution: if the Midi expander stand alone has mat cost >\$50, it might be combined with the input expander or output box.