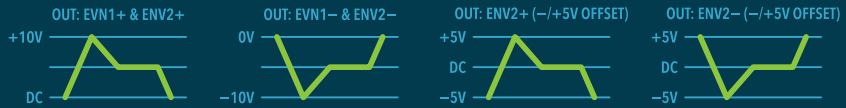
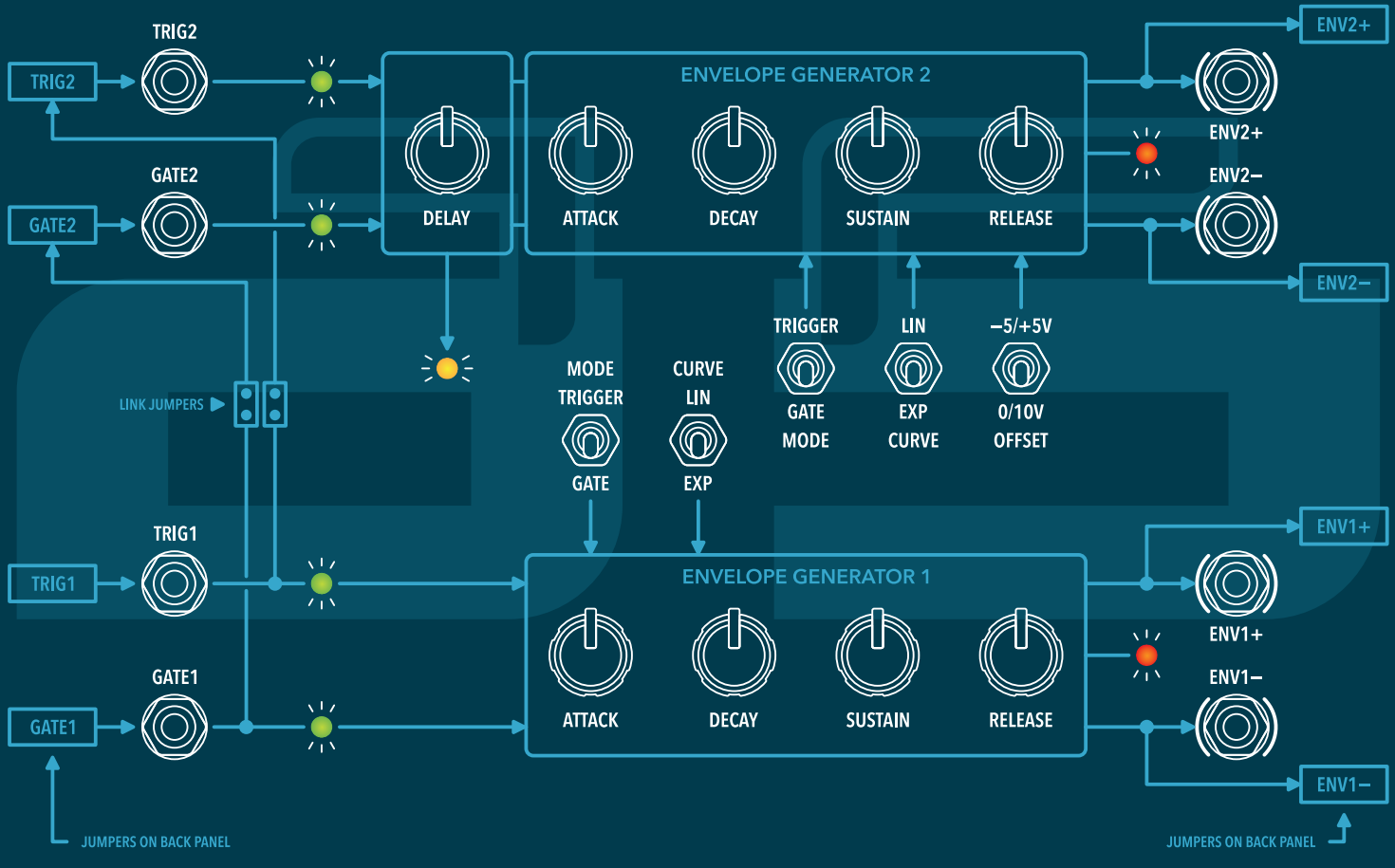
BLOCK DIAGRAM OF

DUAL ENV

AS301

MIXED SIGNAL MODULE





FRONT PANEL OF

DUAL ENV

AS301

MIXED SIGNAL MODULE

1. GATE1 in for ENV1 (can linked to GATE2)
2. Indicator of GATE1 in
3. TRIG1 in for ENV1 (can linked to TRIG2)
4. Indicator of TRIG1 in
5. ENV1 positive out, range: 0V to +10V
6. ENV1 negative out, range: 0V to -10V
7. GATE2 in for ENV2
8. Indicator of GATE2 in
9. TRIG2 in for ENV2
10. Indicator of TRIG2 in
11. ENV2 positive out, range: 0V to +10V / -5V to +5V
12. ENV2 negative out, range: 0V to -10V / +5V to -5V
13. ENV1 mode: gate or trigger *
14. ENV1 curve: linear or exponential
15. ENV2 mode: gate or trigger *
16. ENV2 curve: linear or exponential
17. ENV2 offset: 0V/10V or -5V/+5V

18. ENV2 delay time: 0s to 2s
19. ENV2 in delay phase indicator
20. ENV1 attack time: 2ms to 10s
21. ENV1 decay time: 2ms to 10s
22. ENV1 sustain level: 0V to +10V
23. ENV1 release time: 2ms to 10s
24. ENV1 output indicator
25. ENV2 attack time: 2ms to 10s
26. ENV2 decay time: 2ms to 10s
27. ENV2 sustain level: 0V to +10V
28. ENV2 release time: 2ms to 10s
29. ENV2 output indicator

* ENV ignores TRIG signal when mode switch in GATE position. This way the ENV won't get restarted by TRIG signal.

Incoming TRIG signal restarts ENV when mode switch in TRIGGER position.

BACK PANEL OF

DUAL ENV

AS301

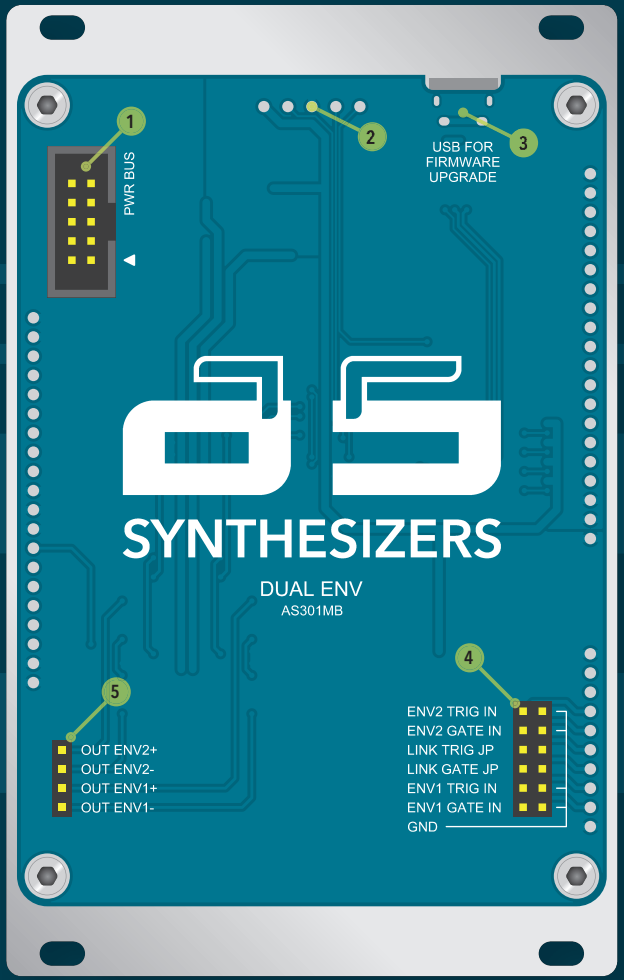
MIXED SIGNAL MODULE

1. Power bus connector IDC10
2. Factory programmer port
3. USB for firmware upgrade
4. GATE & TRIG inputs from internal rails and GATE & TRIG links ENV1 to ENV2

   When no use of input pins, connect jumper between input and GND.

   Linking GATE and TRIG. inputs between ENV1 and ENV2, remove jumper from ENV2, TRIG and GATE inputs.
5. ENV outputs to internal rails

   Do not use jumpers on output pins, also do not connect to ground or power rails!



168MHz 32bit FloatingPoint CPU

16bit High Speed DACs

D A MIXED SIGNAL

USB FIRMWARE UPGRADE

FIRMWARE UPGRADE:

1. Download Dual ENV firmware from our website
2. Turn off your modular system
3. Connect Micro USB cable to Firmware upgrade port
4. Turn on your modular system
5. Module's library appears in pop-up window
6. Drag and drop downloaded file into pop-up window
7. When upload is done turn off your modular system and disconnect USB cable.
8. Restart your modular system and enjoy
9. If upload process was unsuccessful, repeat the whole procedure.

TECHNICAL SPECIFICATION

- Module depth: 33mm
- Module width: 16HP (80.4mm)
- Module weight: 215g
- Connector type: 10P IDC Eurorack
- Power consumption: +12V / 90mA & -12V / 10mA
- Analog outputs: True Rail-to-Rail
- Analog outputs range: 0V to +10V or -5V to +5V
- Digital inputs range: 0V /+5V
- Digital inputs pulse time: min 1ms