



YOU CAN CUSTOMIZE WIGGLEPORT BY CHOOSING
MODULES THAT SUPPORT THE SIGNALS YOU WANT...

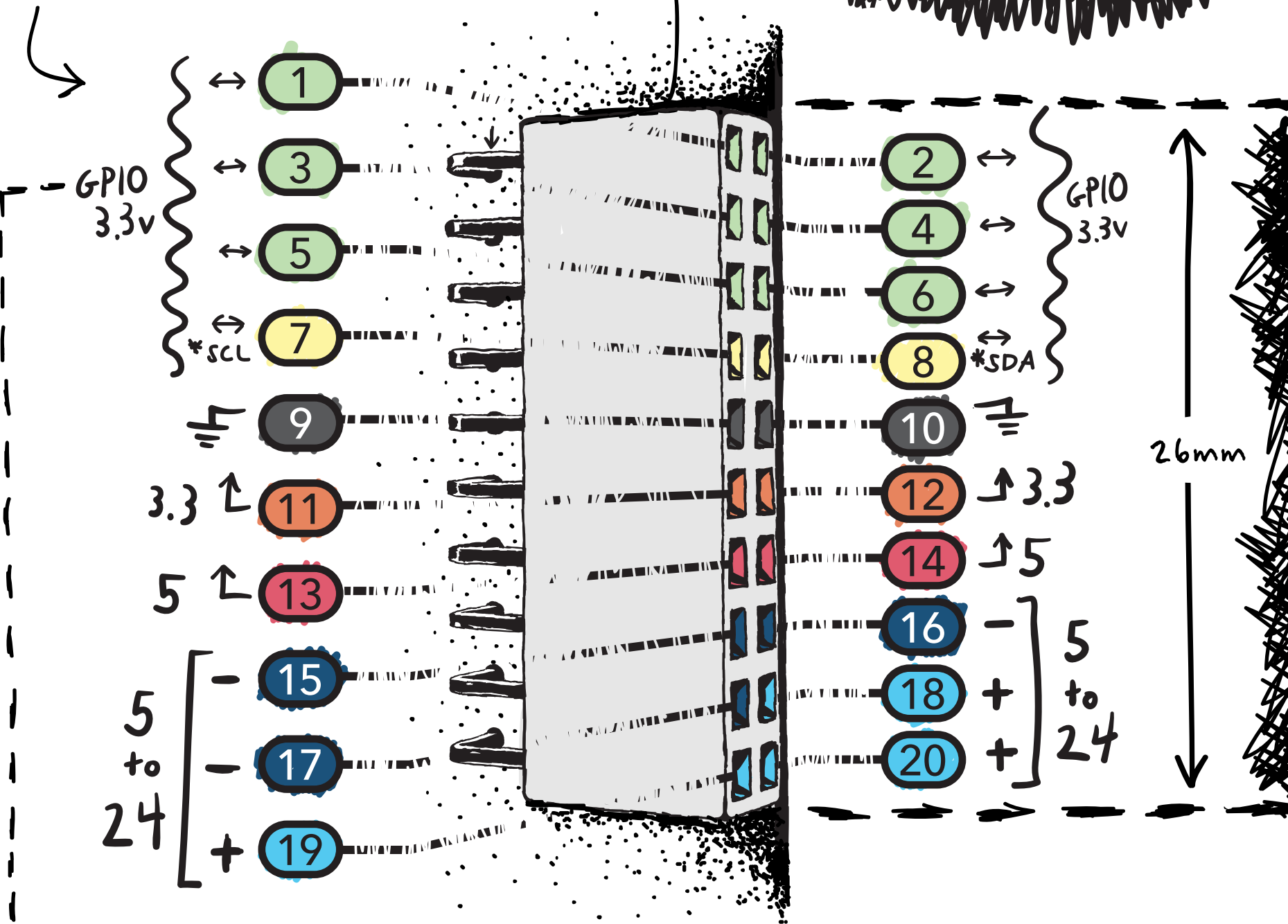
EACH WIGGLE SPINE CARRIES POWER
AND DATA FOR ANY SEVEN MODULES

wigglemod *Design your own!*

 5V AND 3.3V,
UP TO 100MA PER MOD
plus

 5 TO 24V,
UP TO 4A PER MOD!
(THAT'S 90 WATTS)

EACH MODULE PLUGS INTO A
CONNECTOR LIKE THIS ONE,
WITH 0.1" SPACING.

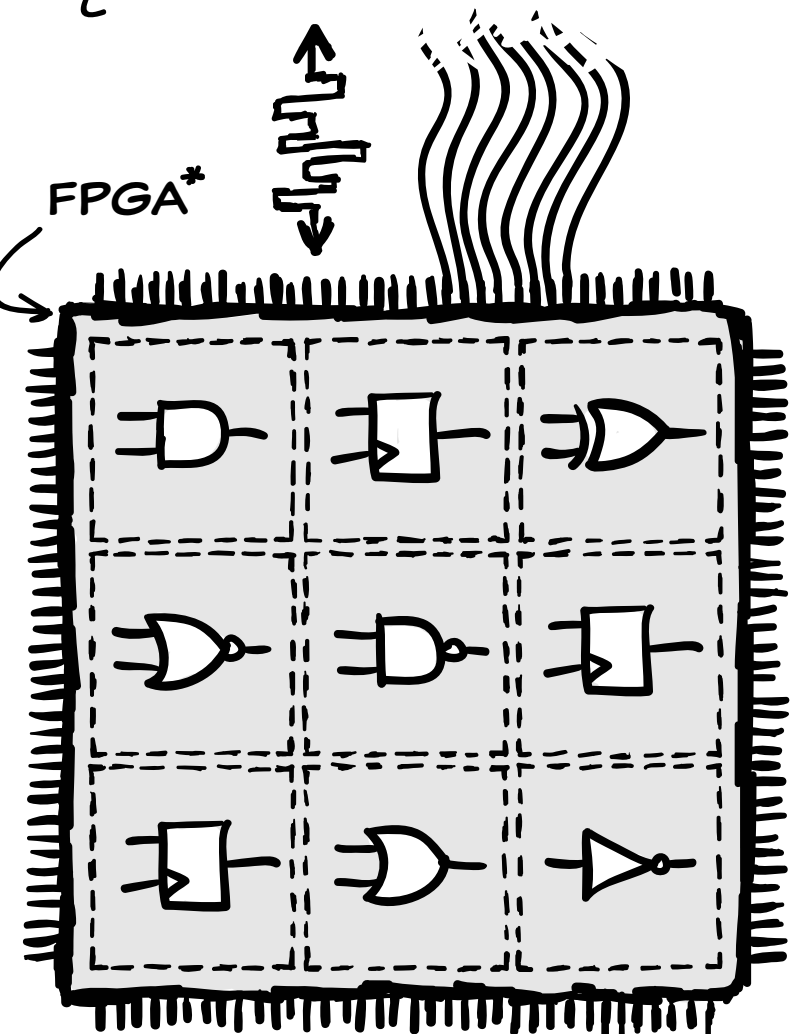


{ 8X GENERAL PURPOSE
3.3V DIGITAL I/O PINS

* THE SPINE USES PINS 7 AND 8 TO
DETECT THE MODULE'S TYPE,
WITH I²C OR ANY TWO-WIRE BUS.

! MODS MUST TOLERATE ARBITRARY
OUTPUTS ON THESE PINS DURING
TYPE DETECTION.

(SERIES RESISTORS RECOMMENDED)



THE SPINE HAS A SMALL FPGA,
A GRID OF PROGRAMMABLE LOGIC

WHEN A MODULE LOADS, IT
CAN USE A PORTION OF THE
FPGA FOR ANY PURPOSE:
INTERFACE LOGIC, MODULATION,
COUNTERS, CONTROL LOOPS, ETC.

*Not to scale