Rack in a box

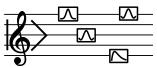


Presto microwave platform

No mixers, no microwave generators, just Direct Digital Synthesis up to 9 GHz



QUANTUM EVENT ORGANIZER



Place pulses and readout on a 2 ns event grid

MULTIFREQUENCY



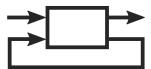
Continuous-wave generation and demodulation with 192 simultaneous frequencies

ARBITRARY PULSES



Up to 256 templates with 1 GHz bandwidth

LOW-LATENCY FEEDBACK



Trigger output pulses from any combination of template-matching results





Match incoming pulses to templates for state discrimination

Simple flexible interface for reset, readout, Ramsey, Rabi or your own custom algorithm

16 RF outputs

16 RF inputs

2 local-oscillator outputs

16 DC-bias outputs

4 digital inputs 4 digital outputs

- 1 GHz bandwidth around 0 9 GHz carrier with DDS technology
- 1 GS/s with digital IQ demodulation up to 9 GHz

Ideal for pumping parametric amplifiers Up to 15 GHz continuous-wave output -

16-bit resolution 5 programmable ranges up to ±10 V

Programmable triggers and markers



Scalable and synchronizable with Metronomo

More about Presto