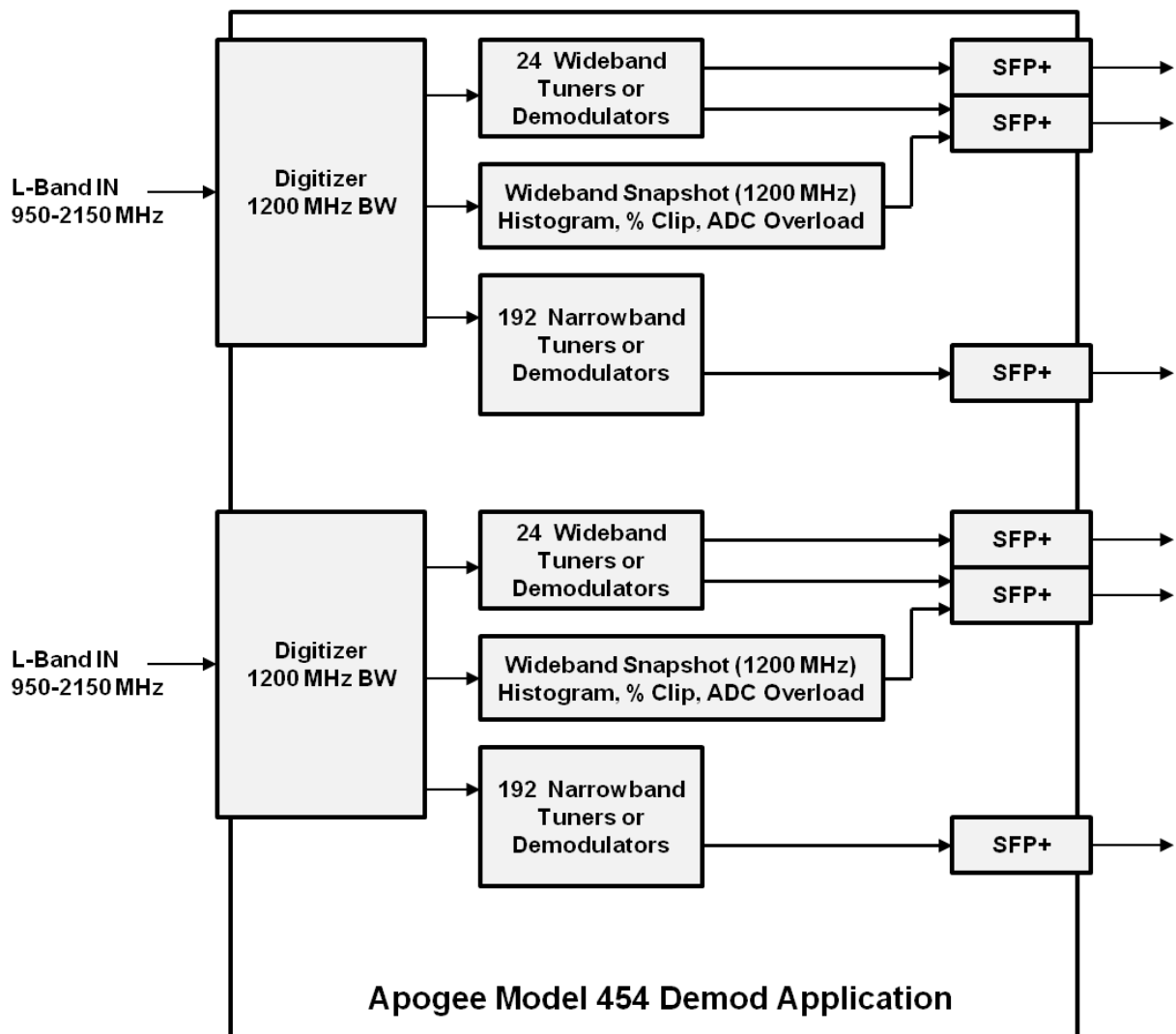


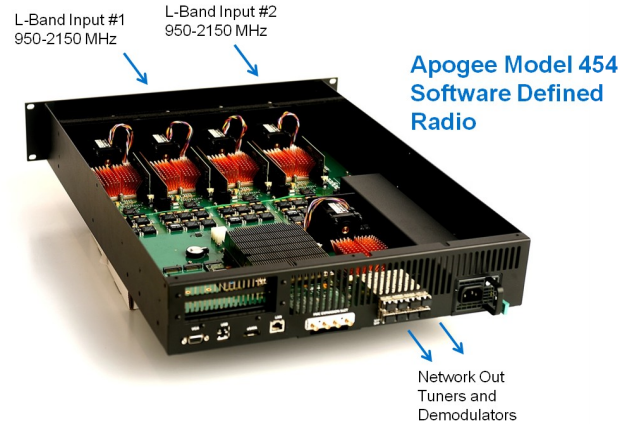
- 2 L-Band Inputs (950-2150 MHz)
- 192 Narrowband Channels per input. Channel output can be Tuner or Demod. Any decimation between 128 and 131072, or Demod between 3 Ksym/sec and 3.125 Msym/sec
- 24 Wideband Channels per RF Input, Channel output can be Tuner or Demod. Any decimation between 8 and 128, or Demod between 3.125 Msym/sec and 50 Msym/sec

- Demodulators - BPSK, QPSK, or 8PSK, Soft Decision Output
- Symbol Rate up to 50 MSym/sec
- Packetized Demodulator Soft Decision Output with Time Tag - SDDS or VITA-49A packet format
- Soft Decision format is Fixed Point Signed 16-bit (Q1.14)



Demodulator Control Inputs

- Center Frequency, Symbol Frequency
- Modulation Type - BPSK, QPSK, 8PSK
- Root Raise Cosine Filter Rolloff Factor (0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40)
- AGC Loop Gain (default value set)
- Timing Recovery Noise Bandwidth (default value set)
- Timing Recover Damping Factor (default value set)
- Automatic Level Control (ALC) Loop Gain (default value set)
- Phase Recovery Noise Bandwidth (default value set)
- Phase Recovery Damping Factor (default value set)



Output Format

- Fixed Point Signed 16 bit in Q1.14 format
- Constellation points scale to be on a circle with a radius of approximately $\sqrt{2} \Rightarrow 23170$ Integer

