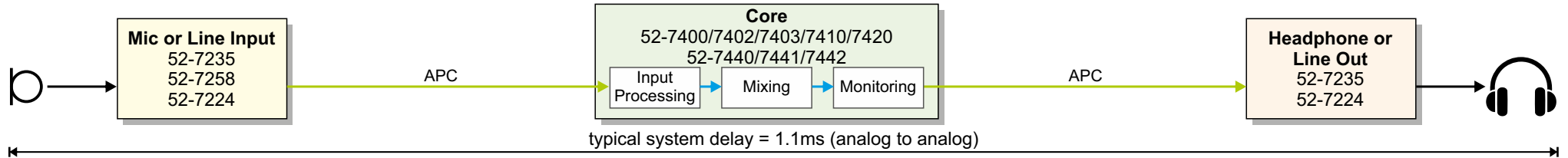


Audio Signal Delays of XC/XC2/XD Cores & XC I/O Modules

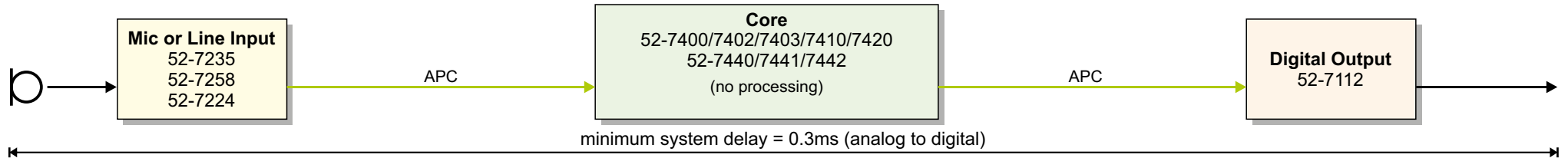
Example 1, typical system signal flow:

microphone/line input – core (input processing, mixing, monitoring) – headphone or analog line output



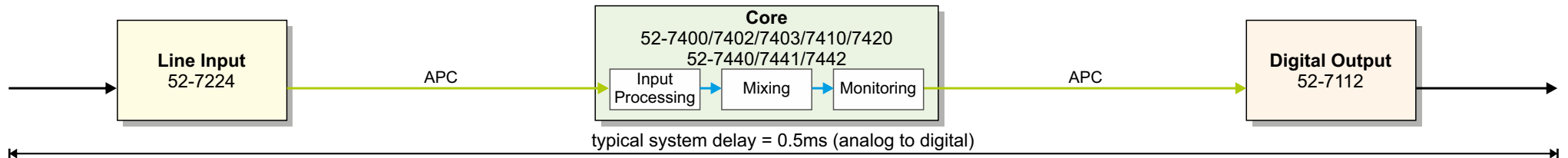
Example 2, minimum delay:

microphone/line input – core (no processing) – digital output



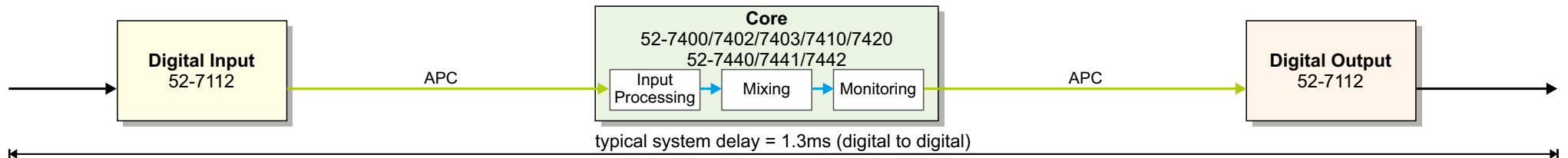
Example 3, typical system signal flow:

analog line input – core (input processing, mixing, monitoring) – digital output



Example 4, typical system signal flow:

digital input with sample rate converter (SRC=on) – core (input processing, mixing, monitoring) – digital output



Input Processing, typical: subsonic filter, 4 band EQ, compressor, limiter
(Note: the delay is constant and independent of the number of functions inside the processing chain)

Mixing: program bus

Monitoring: output function

— APC -Audio, Power, Control/
Controller Network, Ethernet CAT5/6
— Analog / Digital Audio

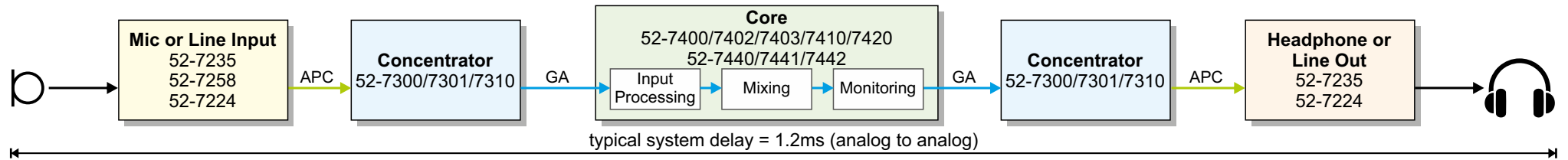
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Audio Signal Delays of XC/XC2/XD Cores, Concentrators & XC I/O Modules

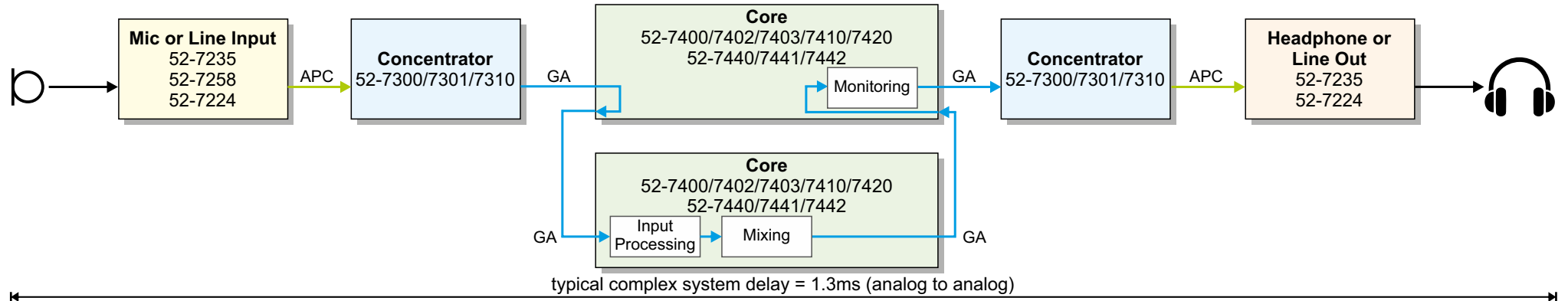
Example 1, typical system signal flow:

microphone/line input – concentrator – core (input processing, mixing, monitoring) – concentrator – headphone or analog line output



Example 2, complex system signal flow (studio connected to control room via another core):

microphone/line input – concentrator – core 1 (routing) – core 2 (input processing, mixing) – core 1 (monitoring) – headphone or analog line output



Input Processing, typical: subsonic filter, 4 band EQ, compressor, limiter
(Note: the delay is constant and independent of the number of functions inside the processing chain)

Mixing: program bus

Monitoring: output function

- 512 Ch. DHD Gigabit Audio, bidirectional, LWL, LC
- APC -Audio, Power, Control/ Controller Network, Ethernet CAT5/6
- Analog / Digital Audio / GPIO

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