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(54) Title: DIGITIZER FOR GROUND STATIONS AND REMOTE TERMINALS

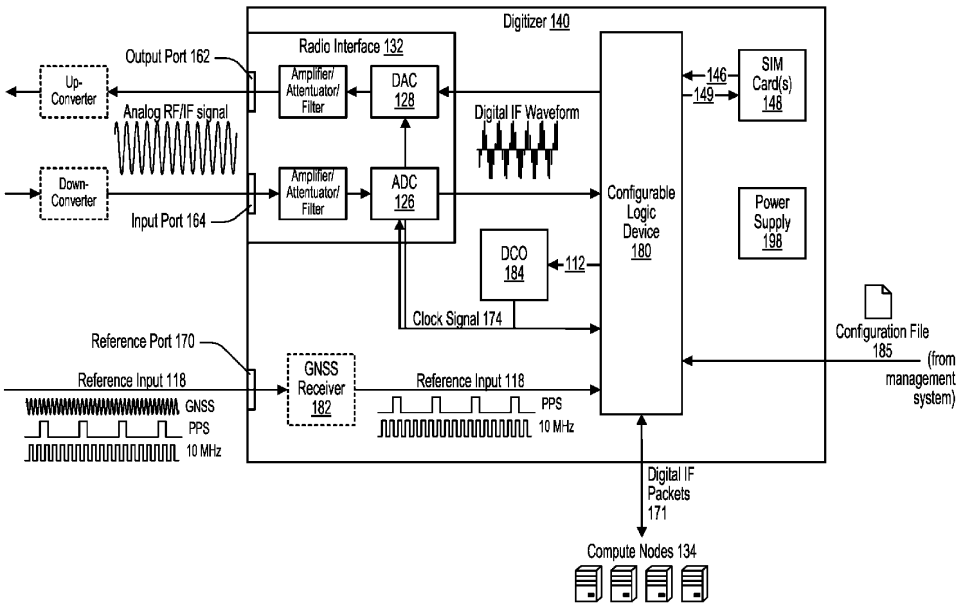


FIG. 1

(57) Abstract: Described herein is a digitizer for use at a ground station or a remote terminal of a satellite communication system. The digitizer includes a radio interface having a DAC for converting an outbound digital waveform into an outbound analog signal and an ADC for converting an inbound analog signal into an inbound digital waveform. The digitizer also includes a configurable logic device coupled with the radio interface. The configurable logic device is configured to generate first and second streams of digital IF packets containing portions of the inbound digital waveform within first and second frequency bands. The configurable logic device is also configured to send the first and second streams of digital IF packets to first and second VNFs for processing in accordance with first and second applications.

[Continued on next page]

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