

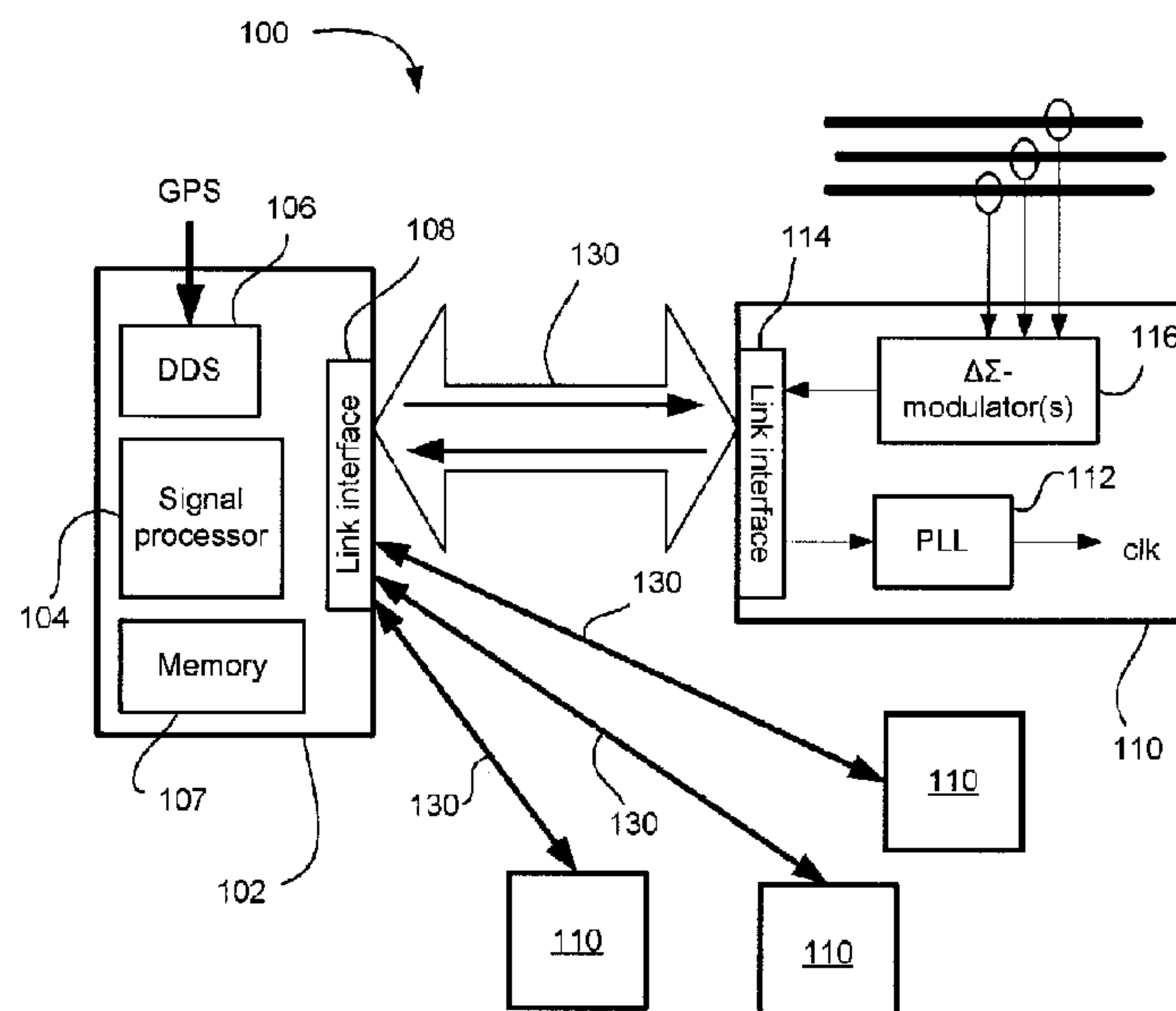


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(57) Abrégé/Abstract:

Described are methods, devices and systems for communicating data measurements from a sampling device to a remote master device in a distributed power measurement system using high-speed isochronous data links. The sampling device receives a time-stamp packet from the master device over the isochronous data link, the time-stamp packet containing a sequence number of the time-stamp packet, and the sampling device starts a counter clocked by a local clock signal to determine an offset time since receipt of the time-stamp packet. The sampling device obtains power system data and generates and transmits framed output data to the remote master device over the isochronous data link. The framed output data includes the sequence number, the offset time, and a data payload that includes the power system data.



ABSTRACT

Described are methods, devices and systems for communicating data measurements from a sampling device to a remote master device in a distributed power measurement system using high-speed isochronous data links. The sampling device receives a time-stamp packet from the master device over the isochronous data link, the time-stamp packet containing a sequence number of the time-stamp packet, and the sampling device starts a counter clocked by a local clock signal to determine an offset time since receipt of the time-stamp packet. The sampling device obtains power system data and generates and transmits framed output data to the remote master device over the isochronous data link. The framed output data includes the sequence number, the offset time, and a data payload that includes the power system data.

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