Title (en)
CALIBRATION OF HIGH-SPEED INTERLEAVED ARRAYS

Title (de)
KALIBRIERUNG VON VERSCHACHTELTEN HOCHGESCHWINDIGKEITSARRAYS

Title (fr)
ÉTALONNAGE DE RÉSEAUX ENTRELACÉS À VITESSE ÉLEVÉE

Publication
EP 3314832 A1 20180502 (EN)

Application
EP 15896522 A 20150625

Priority
US 2015037597 W 20150625

Abstract (en)
[origin: WO2016209231A1] Techniques for calibration of high-speed interleaved analog-to-digital converter (ADC) arrays are presented. A transceiver comprises an ADC component that comprises an array of sub-ADCs that can be interleaved to facilitate high-speed data communications. The ADC component processes signals received from a remote transmitter to facilitate recovering the received data. The transceiver can comprise a calibration component that determines transfer characteristics of the communication channel or medium between the transceiver and the remote transmitter, and the transfer characteristics of the remote transmitter to each of the sub-ADCs of the array, based on the recovered data. The calibration component calibrates sub-ADCs of the array to facilitate correcting sub-ADC path differences, based on the respective transfer characteristics, to facilitate mitigating distortions that would be caused by the path differences, wherein the calibration component can use channel estimation to determine the transfer functions of the sub-ADCs of the array.

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