

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 A4 20190130 (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.

IPC 8 full level

H03M 13/27 (2006.01); **H04L 25/03** (2006.01); **H04L 25/02** (2006.01)

CPC (source: EP KR)

H03M 13/27 (2013.01 - KR); **H04L 25/024** (2013.01 - KR); **H04L 25/03019** (2013.01 - EP KR); **H04L 25/0204** (2013.01 - EP)

Citation (search report)

- [X1] US 2009185613 A1 20090723 - AGAZZI OSCAR E [US], et al
- [X1] US 2013307712 A1 20131121 - ALI AHMED MOHAMED ABDELATTY [US]
- [X1] SANDEEP PONNURU ET AL: "On the convergence of joint channel and mismatch estimation for time-interleaved data converters", SIGNALS, SYSTEMS AND COMPUTERS (ASILOMAR), 2011 CONFERENCE RECORD OF THE FORTY FIFTH ASILOMAR CONFERENCE ON, IEEE, 6 November 2011 (2011-11-06), pages 985 - 989, XP032172243, ISBN: 978-1-4673-0321-7, DOI: 10.1109/ACSSC.2011.6190158
- See references of WO 2016209231A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2016209231 A1 20161229; CA 2990153 A1 20161229; CN 108028814 A 20180511; CN 108028814 B 20210105; EP 3314832 A1 20180502; EP 3314832 A4 20190130; JP 2018520590 A 20180726; KR 20180034441 A 20180404

DOCDB simple family (application)

US 2015037597 W 20150625; CA 2990153 A 20150625; CN 201580081232 A 20150625; EP 15896522 A 20150625; JP 2017566718 A 20150625; KR 20187002515 A 20150625