Date Added to IEEE Xplore: 01 July 2013 DOI: 10.1109/MeMeA.2013.6549761

Publisher: IEEE

ISBN Information:

Conference Location: Gatineau, QC, Canada

Contents

I Introduction

The main objective of this work is the evaluation of the requirements and performance of the ADS119x/129x as a multichannel three-lead Electrocardiography/Electromyography (ECG/EMG) measurement

device for etextile applications. In particular, the acquisition of ECG and multiple EMG signals using wearable electrodes is aimed for. The ADS119x/129x family provides up to 8 channels of three-lead ECG/EMG acquisition, being thus are interesting option for the application in hand. However, this chip has been introduced to the market very recently and few works have reported on its application. In this work, an evaluation of its performance and requirements in terms of external circuitry for a battery-powered application is examined to assess its potential as a conditioning chip for e-textile applications such as the Bioswim instrumented swimsuit [1] [2] or other EMG/ECG monitoring applications[3] [4].

Authors	~
Figures	~
References	~
Citations	~
Keywords	~
Metrics	~

IEEE Personal Account

Purchase Details

Profile Information

Need Help?

Follow

CHANGE USERNAME/PASSWORD

PAYMENT OPTIONS

VIEW PURCHASED DOCUMENTS

PROFESSION AND EDUCATION

WORLDWIDE: +1 732 981 0060

TECHNICAL INTERESTS

CONTACT & SUPPORT

About IEEE Xplore | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2021 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

 IEEE Account
 Purchase Details
 Profile Information
 Need Help?

 » Change Username/Password
 » Payment Options
 » Communications Preferences
 » US & Canada: +1 800 678 4333

 » Update Address
 » Order History
 » Profession and Education
 » Worldwide: +1 732 981 0060

 » View Purchased Documents
 » Technical Interests
 » Contact & Support

About IEEE Xplore | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. © Copyright 2021 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.