



**Silicon Turnkey
Express**

ADS512101 WiFi Kit For Linux Developers \$2995



G4 Apps

The ADS5121e WiFi Kit for Linux Developers is a ready made product, software and support solution for development groups using the Freescale MPC5121e and Freescale Linux that want to get going on the development and test of applications. The kit and associated support provide an immediate start and risk reduction to development programs in automotive vehicle-to-vehicle and vehicle-to infrastructure, commercial and control systems.

Developed and supported by STx and G4 Apps, experts in embedded Linux systems for real time mobile broadband applications, the WiFi kit contains 2 miniPCI format WiFi 802.11 a/b/g cards with antennae, proven and supported drivers and configurations for use with the latest revisions of Freescale's Linux BSPs for the ADS5121e, and reference applications for the most common uses.



Features

Wireless LAN

- 802.11 a/b/g station mode
- 802.11 a/b/g ad-hoc mode

- Multiple simultaneous radio support

- MAC address filtering
- Ad-hoc networking

Wireless Networking

- DHCP client

Wireless Security

- WEP
- Open, pre-shared key authentication

Reference Applications

Networking Utilities

- FTP
- Wireless console access: telnet, ssh
- Multiple simultaneous radio support

PC-ADS521e Communications

- Headless ADS5121e
- Connection management
- Command Mode
- Periodic messages

Web Connectivity

- Headless, browserless ADS5121e
- Web site with PHP data collection script
- ADS 5121e periodically establishes web connection and transfers data
- Data access and collection

Linux, Drivers, LTIB, Configurations

The ADS521e WiFi Kit for Linux Developers comes with the latest revision of Freescale's Linux BSP for the ADS5121e along with drivers and LTIB expressly configured and tested to support the WiFi cards included in the kit. With each major revision to the Freescale BSP G4 Apps updates and tests the kit software to ensure robust operations and consistent interface to applications.

Reference Applications

The Kit contains a suite of reference applications, with source code, for the purposes of enabling users to get their systems up quickly, and to use as starting points or components of their own applications.

FTP

This application demonstrates and provides for file transfers between the ADS5121e and another computer over a WiFi connection, including loading software into the ADS5121e.

Wireless Console Access

Telnet and SSH over a WiFi connection support wireless virtual consoles.

ADS5121e – PC Communications

A simple communications connection and command structure application is provided as a template for establishing and managing connections within user developed applications. With this application the user can instruct the ADS5121e to periodically send messages with time stamps and status data as a tool for application development.

Web Connectivity

In this application a headless ADS5121e periodically establishes a web connection to a server and transmits messages including timestamps and status data. A PHP script for the server is provided. This serves as a reference application for general web connectivity as

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well as for user applications for wireless remote data collection from user developed applications.

Compatibility

The Kit is compatible with Rev 3.2 ADS5121e boards and beyond, utilizing board compatible Freescale Linux BSPs. Before ordering please contact STx to ensure operation of the kit with particular revisions of the ADS5121e and Linux BSPs.

Support

Each kit includes 4 hours of internet/telephone support from G4 Apps. Support requirements beyond that will be fulfilled at additional fee.

G4 Apps

G 4Apps Inc. is a contract software development company specializing in mobile broadband middleware and applications especially for embedded automotive, control and commercial applications. G4 Apps provides basic systems components and related support as well as offering consulting and development services.

See www.g4apps.com

STx

STx is an Electronic Original Design Manufacturer providing integration, support, and design services to semiconductor suppliers and ODM production ready embedded reference boards and software. STx provides a "concept to production" for custom design, low cost variations of reference boards, integration services and Electronic Manufacturing Services. STx is the designer and manufacturer of the ADS5121e in addition to offering related design and manufacturing services.

See www.silicontkx.com.

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