

Multi-Channel Sniffer

Powered by

Arada Wireless Solution Software



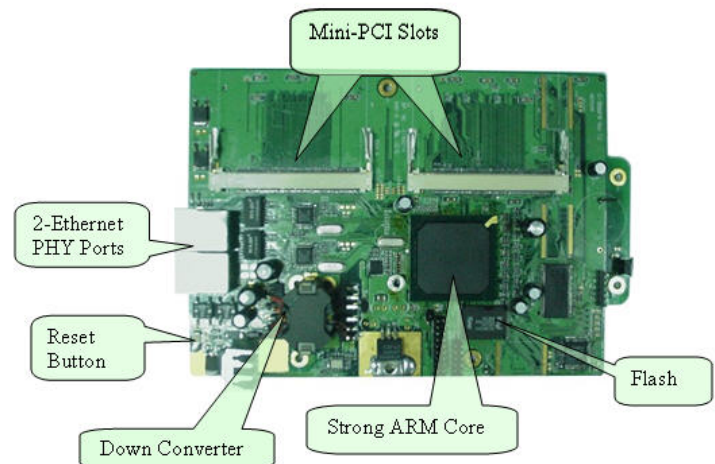
Product Highlights

Arada Systems' Multi-Channel Sniffer (MCS™) is a powerful embedded system-level solution that is scalable and modular. It can be used to capture all channels in the 2.4GHz and multiple channels in the 5.4GHz bands (up to a maximum of **16 channels simultaneously**). There is no overhead of switching channels so no packets are dropped on any channel.

The product can sniff all the channels at once, so there is no risk of missing packets on a particular channel. Each Mini-PCI WLAN card is dedicated to a separate channel so there is no overhead of switching channels—as is in the case of available single channel sniffer products.

MCS gives you complete information of your wireless environment. The product is a system level solution that caters to multiple applications – from analyzing wireless traffic in public hotspots to detect threats – to checking out wireless environmental conditions – to any application that requires complete Wi-Fi spectrum information.

System Block Diagram



Supported Features	
Multiple Channel Support	Sniffs multiple independent channels simultaneously - up to a maximum of 16 channels
No channel switching overhead	
External Power Sourcing	Board: 3.3V 12A Cooling Fans: 12V 2A Powered by external switched mode power supply through DC jack or Molex connector
Optional Cooling Fans	Optional, temperature-controlled fans to maintain air flow and dissipate heat
Antenna Control and Diversity	<ul style="list-style-type: none"> • 3-in-1 integrated 4dBi omni-directional antenna for reduced physical count of antennae—and increased signal reliability • Software control to enable or disable antenna diversity.
LED Controls	Visual indication of each wireless card operation
Layered Architecture	
API Support	Powerful API support to enable full customization

Software Components	
Boot Loader	Present
Operating System	SnapGear Embedded Linux
WLAN driver	Present
API	Host Single Board Computer (HSBC) API Library
Wrapper Library	Socket Wrapper Library
Application	Sniffer Application
Processor	Intel XScale IXP425 Processor Operating 533MHz
Memory	128MB SDRAM (Up to 256MB max.)
Flash	16MB Flash (Up to 32MB max.)
Physical Ports	4 x Type III Mini-PCI Slots 2 x 10/100 Base-TX Ethernet Ports
Debug Interface	Serial/JTAG Optional JTAG Programmer

	Optional Serial Converter
Other Features	User LED and Push-button Reset Watch -Dog Timer Real Time Clock (RTC) Temperature Sensor (Optional)
DC Supply	3.3 V
Operating Temperature	-20° C to 55° C