

SNFv5.3.2.5 User Guide

Version 5.3.2.5

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PREFACE

The SNFv5.3.2.5 User Guide describes the run-time SNFv5.3.2.5 software package for the CSPi - Myricom ARC Series E-class of network adapters.

Intended Audience

The document is intended for system and networking architects looking for a tailored solution with a focus on packet capture and reduced CPU usage. In this context, the SNFv5.3.2.5 product provides a deployable solution by using a combination of advanced software stacks and 1- and 10-Gigabit network adapters. The document assumes that readers are familiar with C programming language, GNU development tools, and general computer maintenance.

Software developers interested in directly utilizing the advanced features of CSPi Myricom products through the SNF interfaces, should refer to the *SNFv5.3.2.5 API Reference Manual*.

A Note on Handling Network Adapters



Follow industry-standard ESD anti-static procedures when handling network adapters to avoid accidentally damaging integrated circuits.

For more information on ESD anti-static procedures, go to:

<https://www.esda.org/about-esd/esd-fundamentals/part-3-basic-esd-control-procedures-and-materials/>

Notices

The following notices are used in this document:

Notice	Refers to:
NOTE:	These notices provide important tips, guidance, or advice.
ATTENTION:	These notices indicate potential damage to programs, devices, or data.

1.1 Introduction

The ARIA™ Cybersecurity Solutions-Myricom® Sniffer version 5.3.2.5 software, or **SNFv5.3.2.5**, powers the ARC Series E-class of network adapters to deliver pure packet capture, with the flexibility to configure advanced functions, leaving the vast majority of server cycles available for your application requirements.

SNFv5.3.2.5 is a tightly-integrated combination of FPGA firmware and user-level software libraries to enable sustained capture with merging of 1- and 10-Gigabit Ethernet traffic.

This chapter describes the following topics:

- SNFv5.3.2.5 Components
- SNFv5.3.2.5 Benefits
- What's New in SNFv5.3.2.5 Software
- SNFv5.3.2.5 and the ARC Series E Network Adapter
- Support for Open-Source Software
- SNFv5.3.2.5 Chapter Summaries