

# AXI4 RAM v1.0

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*IP User Guide (Alpha Release)*



January 25, 2023

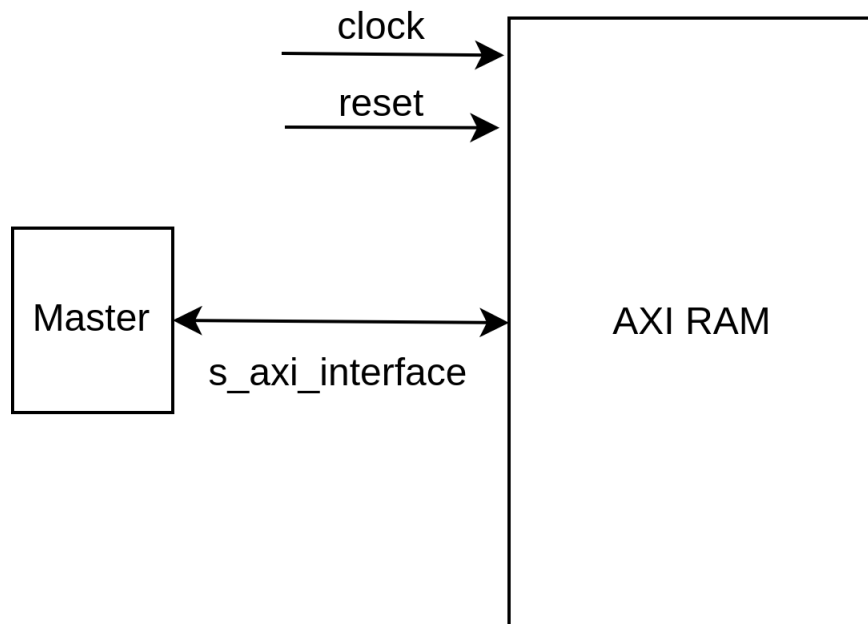
# Contents

<b>IP Summary</b>	<b>2</b>
Introduction .....	2
<b>Release</b>	<b>3</b>
Revision History .....	3

# IP Summary

## Introduction

RAM, or random access memory, is a type of system memory that is used to temporarily store data that the system is currently using or processing. When the system is powered on, the operating system and other programs are loaded into RAM, where they can be quickly accessed by the system's processor. This allows the system to quickly retrieve and manipulate the data it needs to perform tasks, making the overall operation of the system faster and more efficient. This RAM IP is configurable and AXI4 compliant and hence can be integrated easily in a vast variety of AXI based systems. A top level block diagram of this AXI4 RAM is shown in Figure 1.



**Figure 1.** AXI4 RAM Block Diagram

# Revision History

Date	Version	Revisions
January 25, 2023	0.01	Initial version AXI4 RAM User Guide Document