



Winegard Sensor Internal and External Pictures

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Status:	Working Draft	Version:	1.0
	Internal Review	Date:	27 July 2023
	Released		
	Revision to Released Document		

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Abstract

This document describes the Winegard WiFi Extender Theory of Operation and provides block diagrams for illustration.

This is a controlled document.



Revision History

Date	Revision	Description	Author
June/27/2023	1.0	First Draft	Dean Kostan



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1 INTRODUCTION

1.1 Introduction

This document provides the theory of operation along with supporting materials for the Winegard Sensor Family. The Sensors are based off of a reference design form Nordic Semiconductor and used the nRF52840 chip. The family members are:

- a. **HSSSET** Family parent device with all features populated/included
- b. **HSTMP1** Product version with only Buzzer, Temperature, humidity, and accelerometer functions populated
- c. **HSP1R1** Product version with only Buzzer, accel, PIR, and ambient light functions populated
- d. **HSCC01** Product version with only Buzzer, and Contact closure functions populated
- e. **HSH2O1** Product version with only Buzzer, accel, temp/humidity and Water/Leak detector functions populated

They all shares the same PCB.





Figure 1. Internal/External Pictures