

# PROTO3 Deluxe Expansion Board

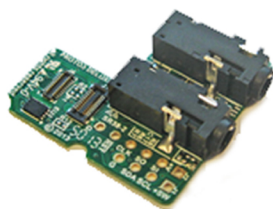


Image shows PROTO3 Deluxe Expansion Board

## KEY FEATURES

- Four channels of analog or two channels of digital input allow users to attach external devices via 3.5mm jack connectors
- Power supplied to external devices via 3V connection which can be enabled/disabled via FW
- EEPROM storage device enables expansion board detection and identification, as well as 2032 bytes of data storage available to user
- PROTO3 Deluxe connects to the Shimmer3 via the internal expansion connectors; requires an extended Shimmer3 enclosure
- PWM option for PROTO3 Deluxe available upon factory request

## Compatible Accessories

- Optical Pulse Sensing Probe
- Other analog or digital sensor with 0-3V signals

## INTRODUCTION

The Shimmer PROTO3 Deluxe board is part of the Shimmer PROTO3 series which consists of a series of expansion boards for the Shimmer3 platform.

The PROTO3 series of boards enables users to incorporate additional functionality to the Shimmer, providing an outlet to develop their specific application to meet their own user requirements.

## PRODUCT OVERVIEW

The PROTO3 Deluxe Expansion Board provides through-hole connections as well as two 3.5mm jacks, for interfacing with external devices. The PROTO3 series of expansion boards can be used to interface the Shimmer3 with an Analogue Output Sensor, a Digital Output Sensor, a Serial UART or a Parallel Bus Interface.

The PROTO3 boards allow easy prototyping of 3rd party sensors or custom sensing solutions with Shimmer.

### PROTO3 DELUXE SPECIFICATIONS

Current Consumption:	Dependent on connected peripheral
Input Protection:	None
Connections:	<ul style="list-style-type: none"><li>PROTO3 Deluxe: Two 3.5mm 4-position jacks</li><li>PROTO3 Mini: Through-hole connections</li></ul>
Measurement Range:	0-3V
Frequency Range:	Dependent on connected peripheral

### Shimmer International Offices:

Europe – Dublin, Ireland.

USA – Boston, MA.

Asia – Kuala Lumpur, Malaysia.