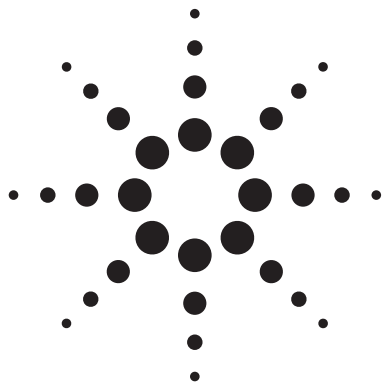




# Agilent Optical Mouse Sensors (LED-based Sensors)

## Selection Guide

### Introduction

This document highlights the part numbers for the LED-based optical mouse sensors, the individual accessories, as well as the corresponding bundles and kits they are part of.

When Agilent Technologies introduces an optical mouse sensor, the part is normally made available in different offerings; sensor only, bundle set, sample kit, or designer's kit. Except for the sensor standalone part, the others are configured with either one or more mouse accessories (lenses, clips and LEDs).

### Part Numbering System

When an optical mouse sensor is introduced, these are the part numbers that are made available with the sensor:

| Part Numbers | Description            | LED-based Products with Base Part Numbers                  |
|--------------|------------------------|------------------------------------------------------------|
| ADNS-XXXX    | Stand alone components | <b>1. Optical Mouse Sensor</b>                             |
|              |                        | <b>2. Lens (Round/Trim)</b>                                |
|              |                        | <b>3. Assembly Clip (Clear/Black)</b>                      |
| ADNB-XXXX    | Optical Mouse Bundles  | <b>1. Optical Mouse Sensor and Round Lens (ADNB-XXX1)*</b> |
|              |                        | <b>2. Optical Mouse Sensor and Trim Lens (ADNB-XXX2)*</b>  |
|              |                        | <i>* Except for ADNB-2050 and ADNB-2051</i>                |
| ADNK-XXXX    | Optical Mouse Kits     | <b>1. Optical Mouse Sample Kit (ADNK-XXX0)**</b>           |
|              |                        | a. Optical Mouse Sensor (5 units)                          |
|              |                        | b. Round lens (5 units)                                    |
|              |                        | c. Trim lens (5 units)                                     |
|              |                        | d. Black clip (5 units)                                    |
|              |                        | e. Clear clip (5 units)                                    |
|              |                        | f. LED (5 units)                                           |
|              |                        | g. CD containing relevant technical literature (1 unit)    |
|              |                        | <i>** Except for ADNK-2052</i>                             |



**Agilent Technologies**

| Part Numbers                           | Description        | LED-based Products with Base Part Numbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADNK-XXXX                              | Optical Mouse Kits | <b>2. Optical Mouse Designer's Kit (ADNK-XXX3)***</b> <ul style="list-style-type: none"> <li>a. Optical Mouse Sensor (5 units)</li> <li>b. Round lens (5 units)</li> <li>c. Trim lens (5 units)</li> <li>d. Black clip (5 units)</li> <li>e. Clear clip (5 units)</li> <li>f. LED (5 units)</li> <li>g. Microcontroller (5 units) - optional</li> <li>h. CD containing Agilent's technical literature and support files (1 unit)</li> <li>i. CD containing microcontroller's technical literature and support files (1 unit) - optional</li> <li>j. Complete working reference design mouse (1 unit)</li> </ul> |
| *** Except for ADNK-2051 and ADNK-3061 |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Currently, there are six LED-based optical mouse sensors available from Agilent Technologies. These are:

| No. | Part Number | Description                                                                                                   |
|-----|-------------|---------------------------------------------------------------------------------------------------------------|
| 1   | ADNS-2030   | Low power optical mouse sensor optimized for cordless mouse applications                                      |
| 2   | ADNS-2051   | Mid range optical mouse sensor for corded and cordless mouse applications                                     |
| 3   | ADNS-2620   | Entry-level, small form-factor, optical mouse sensor with performance features for general mouse applications |
| 4   | ADNS-2610   | Entry-level, small form-factor, optical mouse sensor for general mouse applications                           |
| 5   | ADNS-3060   | High-performance optical mouse sensor                                                                         |
| 6   | ADNS-3080   | High-resolution optical mouse sensor for gaming applications                                                  |

### Optical Mouse Bundles and Kits

The table below provides the list of part numbers for sensors and their corresponding bundles and kits.

| Sensor    | Bundle (Sensor with Round Lens) | Bundle (Sensor with Trim Lens) | Sample Kit | Ref Design Kit |
|-----------|---------------------------------|--------------------------------|------------|----------------|
| ADNS-2610 | ADNB-2611                       | ADNB-2612                      | ADNK-2610  |                |
| ADNS-2620 | ADNB-2621                       | ADNB-2622                      | ADNK-2620  | ADNK-2623      |
| ADNS-2051 | ADNB-2050                       | ADNB-2051                      | ADNK-2052  | ADNK-2051      |
| ADNS-2030 | ADNB-2031                       | ADNB-2032                      | ADNK-2030  | ADNK-2133      |
| ADNS-3060 | ADNB-3061                       | ADNB-3062                      | ADNK-3060  | ADNK-3061      |
| ADNS-3080 | ADNB-3081                       | ADNB-3082                      | ADNK-3080  | ADNK-3083      |

### Accessories—Optical Mouse Lenses

These components are available individually or as part of an optical mouse bundle.

| Lens Type | Part Number   | Associated Bundles |
|-----------|---------------|--------------------|
| Round     | HDNS-2100     | ADNB-2611          |
|           |               | ADNB-2621          |
|           |               | ADNB-2050          |
|           |               | ADNB-2031          |
|           | ADNS-2120     | ADNB-3061          |
|           |               | ADNB-3081          |
| Trim      | HDNS-2100-001 | ADNB-2612          |
|           |               | ADNB-2622          |
|           |               | ADNB-2051          |
|           |               | ADNB-2032          |
|           | ADNS-2120-001 | ADNB-3062          |
|           |               | ADNB-3082          |

### Accessories—LED AssemblyClips

These components are available individually.

| Type of clip | Part Number   | Associated Bundles |
|--------------|---------------|--------------------|
| Black        | HDNS-2200     | ADNS-2610          |
|              |               | ADNS-2620          |
|              |               | ADNS-2051          |
|              |               | ADNS-2030          |
|              | ADNS-2220     | ADNS-3060          |
|              |               | ADNS-3080          |
| Clear        | HDNS-2200-001 | ADNS-2610          |
|              |               | ADNS-2620          |
|              |               | ADNS-2051          |
|              |               | ADNS-2030          |
|              | ADNS-2220-001 | ADNS-3060          |
|              |               | ADNS-3080          |

### Accessories—LED

This component is available individually

| Part Number     | Associated Products |
|-----------------|---------------------|
| HLMP-ED80-XX000 | ADNS-2610           |
|                 | ADNS-2620           |
|                 | ADNS-2051           |
|                 | ADNS-2030           |
|                 | ADNS-3060           |
|                 | ADNS-3080           |

If you have any questions, please contact your local Agilent representative.

### [www.agilent.com/semiconductors](http://www.agilent.com/semiconductors)

For product information and a complete list of distributors, please go to our web site.

For technical assistance call:

Americas/Canada: +1 (800) 235-0312 or  
(916) 788-6763

Europe: +49 (0) 6441 92460

China: 10800 650 0017

Hong Kong: (+65) 6756 2394

India, Australia, New Zealand: (+65) 6755 1939

Japan: (+81 3) 3335-8152(Domestic/International), or  
0120-61-1280(Domestic Only)

Korea: (65) 6755 1989

Singapore, Malaysia, Vietnam, Thailand, Philippines,  
Indonesia: (65) 6755 2044

Taiwan: (65) 6755 1843

Data subject to change.

Copyright © 2005 Agilent Technologies, Inc.

May 4, 2005

5989-2972EN



**Agilent Technologies**