



## 無線アンテナ

CDMA、GSM、PCS、DCS、Bluetooth、WLAN(WiFi)、Zigbee、WiMAX、UWB

The advertisement features a background of binary code and a globe. On the left, the WINiZEN logo and website are shown. A list of antenna types is provided, each accompanied by a small image: Chip Antennas, PIFA, Cabled Antennas, Dipole Antennas, Panel Antennas, Yagi Antennas, Shark-fin Antennas, Horn Antennas, Radar Systems, Custom-designed Antennas, and Anechoic Chamber Control Program. In the center, a photograph shows a large antenna mounted on a tripod in an open field. On the right, a cluster of colorful puzzle pieces represents various wireless technologies: LTE, WiMAX (WBRO), GSM, CDMA, Zigbee, Bluetooth, WiFi, DMB, GPS, UWB, and ISM. Below this, a text block describes WINiZEN as a premier designer and manufacturer of antennas, specializing in research, design, and manufacturing of customer-oriented state-of-the-art antennas. Contact information for WINiZEN Co., Ltd. is provided at the bottom right, including addresses in Seoul and Daejeon, South Korea, and phone/fax numbers. The copyright notice for WINiZEN Co., Ltd. is at the bottom right.

**WINiZEN**  
www.winizen.com

*The Premier Antennas*

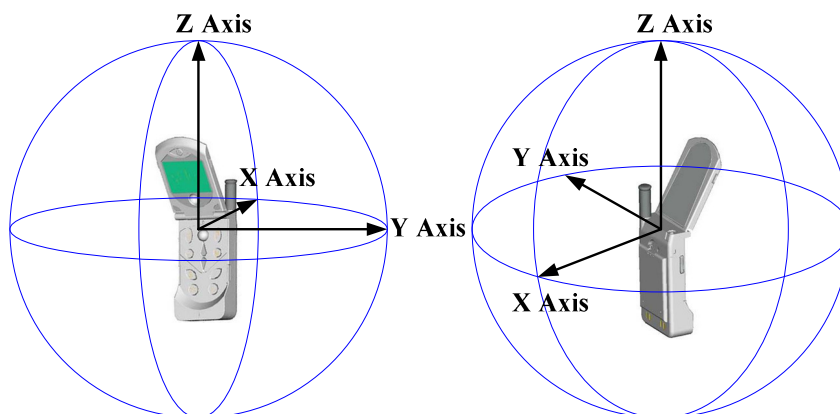
- Chip Antennas
- PIFA
- Cabled Antennas
- Dipole Antennas
- Panel Antennas
- Yagi Antennas
- Shark-fin Antennas
- Horn Antennas
- Radar Systems
- Custom-designed Antennas
- Anechoic Chamber Control Program

WINiZEN is a premier designer and a manufacturer of antennas. WINiZEN is highly specialized in researching, designing and manufacturing of customer-oriented state-of-the-art antennas ranging from small-sized chip antennas to light-weight radar systems.

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## WiMAX (WiBRO) アンテナ

|              |         | Dipole Antennas |                 |                 |                 |                 |                 |                 |                 |                 |                 | Chip Antenna |
|--------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|
|              |         | 1.8 GHz         | 2.3 GHz         | 2.3~2.5 GHz     | 2.3~2.5GHz      | 2.5 GHz         | 2.4~2.7 GHz     | 2.4~2.7 GHz     | 2.5~2.7 GHz     | 3.5 GHz         | 2.5~2.7 GHz     |              |
| Applications |         | WIMAX           | WIMAX           | WIMAX, WiFi     | WIMAX, WiFi     | WIMAX           | WiFi, WIMAX     | WiFi, WIMAX     | WIMAX           | WIMAX           | WIMAX           |              |
| 型番           |         | W9E-DO-01       | W6E-WO-03       | W8E-WB-XX       | W8E-WB-12       | W7E-W26-05      | W8E-BW-08       | W8E-BW-07       | W9E-W26-06      | W8E-W35-31      | W8E-WF-XX       |              |
| 電気仕様         | 周波数     | 1710~1880 MHz   | 2300~2390 MHz   | 2300~2500 MHz   | 2300~2500 MHz   | 2570~2600 MHz   | 2400~2700 MHz   | 2400~2700 MHz   | 2500~2700 MHz   | 3400~3600 MHz   | 2500~2700 MHz   |              |
|              | アンテナタイプ | Dipole          | Dipole          | Dipole          | Dipole          | Dipole          | Dipole          | Dipole          | Dipole          | Dipole          | Chip            |              |
|              | 極性      | Linear          | Linear          | Linear          | Linear          | Linear          | Linear          | Linear          | Linear          | Linear          | Linear          |              |
|              | 指向性     | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional | Omnidirectional |              |
|              | 最大利得    | 4.5 dBi         | 2 dBi           | 2 dBi           | 5 dBi           | 5 dBi           | 3 dBi           | 5 dBi           | 5 dBi           | 5 dBi           | 2 dBi           |              |
|              | インピーダンス | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          | 50 Ohm          |              |
|              | VSWR    | 1:2.9           | 1:1.9           | 1:1.9           | 1:1.9           | 1:1.9           | 1:1.9           | 1:1.9           | 1:1.9           | 1:1.9           | 1:1.9           |              |
| 機械仕様         | 寸法      | 11 x 224 mm     | 10 x 123.5 mm   | 11 x 105 mm     | 11 x 181 mm     | 11 x 181 mm     | 11 x 105 mm     | 11 x 181 mm     | 11 x 181 mm     | 11 x 181 mm     | 10 x 4 x 1.2 mm |              |
|              | 動作温度    | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        | -30~70°C        |              |
|              | コネクタ    | SMA Male        | SMA Male        | SMA Male        | SMA Male        | SMA Male        | SMA Male        | SMA Male        | SMA Male        | SMA Male        | SMT             |              |
|              | 傾斜角度    | 0, 45, 90       | 0, 90           | 0, 45, 90       | 0, 90           | 0, 45, 90       | 0, 45, 90       | 0, 45, 90       | 0, 45, 90       | 0, 45, 90       |                 |              |
|              | 取付場所    | Indoor          | Indoor          | Indoor          | Indoor          | Indoor          | Indoor          | Indoor          | Indoor          | Indoor          | Internal        |              |
| 画像           |         |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |              |

## 外部型アンテナ

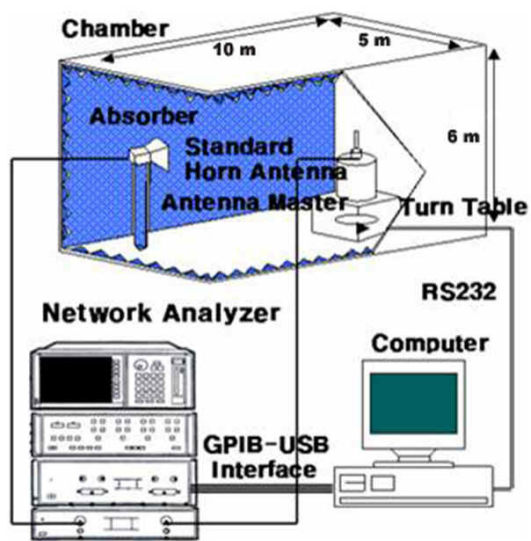
| Application | ISM             | Bluetooth, WLAN (WiFi), ZIGBEE, ISM |                 |                 |                 |                     | WLAN (WiFi) Dual Band     |                 |                |                 |                 |
|-------------|-----------------|-------------------------------------|-----------------|-----------------|-----------------|---------------------|---------------------------|-----------------|----------------|-----------------|-----------------|
| 周波数帯 (MHz)  | 300 ~ 500       | 2400 ~ 2500                         |                 |                 |                 |                     | 2400 ~ 2500 + 4900 ~ 5900 |                 |                |                 |                 |
| 型番          | WE-XXXO-XX      | WE-2400PO                           | WE-2400TO       | WE-2400WO-03    | WE-2400WO-01    | WHF-2400            | WE-2400WO-03              | WE-2400WO-05    | HSP-2400/5000  | HLP-2400/5800-H | HOL-2400/5000   |
| サイズ (mm)    | 124 x 10        | 30 x 9                              | 124 x 10        | 105 x 11        | 181 x 11        | 90 x 127 x 68       | 105 x 11                  | 153 x 18.5      | 170 x 170 x 50 | 423 x 100 x 116 | 114 x 85.3      |
| 最大利得 (dBi)  | 0 ~ 2           | 1                                   | 2               | 3               | 5               | 8.5                 | 3                         | 5               | 8              | 12              | 2.5             |
| VSWR        | 1.9 : 1         | 1.9 : 1                             | 1.9 : 1         | 1.9 : 1         | 1.9 : 1         | 1.5 : 1             | 1.9 : 1                   | 1.9 : 1         | 1.9 : 1        | 1.9 : 1         | 1.9 : 1         |
| 指向性         | Omnidirectional | Omnidirectional                     | Omnidirectional | Omnidirectional | Omnidirectional | Directional         | Omnidirectional           | Omnidirectional | Directional    | Directional     | Omnidirectional |
| インピーダンス (Ω) | 50              | 50                                  | 50              | 50              | 50              | 50                  | 50                        | 50              | 50             | 50              | 50              |
| 重量 (g)      | 10              | 3.5                                 | 10              | 13              | 18              | 160                 | 13                        | 13              | 532            | 900             | 174             |
| 取付法         | Connector       | Connector                           | Connector       | Connector       | Connector       | Wall, Ceiling, Desk | Connector                 | Connector       | Wall, Ceiling  | Pipe            | Ceiling         |
| 画像          |                 |                                     |                 |                 |                 |                     |                           |                 |                |                 |                 |

## 外部型アンテナ

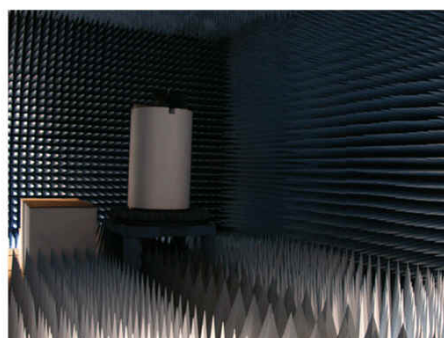
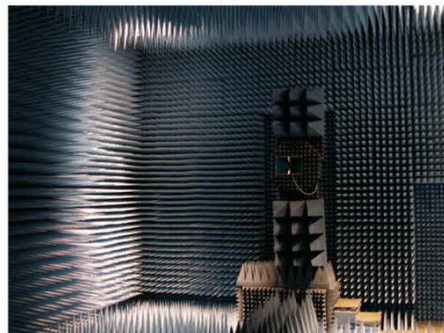
| Application | CDMA 800 + PCS 1900 Dual-band                                                      | GSM 900 + DCS 1800 Dual-band                                                       | PCS 1900                                                                           |                                                                                    |                                                                                    | DCS 1800                                                                            |                                                                                      | GSM 900                                                                              |                                                                                      | CDMA 800                                                                             |                                                                                      | DMB                                                                                  |
|-------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 周波数 (MHz)   | 824 ~ 894 + 1850 ~ 1990                                                            | 880 ~ 960 + 1710 ~ 1880                                                            | 1850 ~ 1990                                                                        |                                                                                    |                                                                                    | 1710 ~ 1880                                                                         |                                                                                      | 880 ~ 960                                                                            |                                                                                      | 824 ~ 894                                                                            |                                                                                      | 174 ~ 216                                                                            |
| 型番          | W8E-CUO-11                                                                         | W8E-GD-13                                                                          | WE0-UPO-18                                                                         | WE0-UPO-19                                                                         | W8E-UPO-XX                                                                         | WMSW-1800E                                                                          | W8E-DO-10                                                                            | WMSW-900E                                                                            | W8E-GO-XX                                                                            | WMSW-800E                                                                            | W8E-CO-09                                                                            | WE-SD-01                                                                             |
| サイズ (mm)    | 105 x 11                                                                           | 105 x 11                                                                           | 103 x 11                                                                           | 150 x 11                                                                           | 105 x 11                                                                           | 166 x 15                                                                            | 105 x 11                                                                             | 210 x 15                                                                             | 105 x 11                                                                             | 210 x 15                                                                             | 105 x 11                                                                             | 135 x 63 x 80                                                                        |
| 最大利得(dBi)   | 1 / 3                                                                              | 1 / 2                                                                              | 3                                                                                  | 2                                                                                  | 2                                                                                  | 2                                                                                   | 2                                                                                    | 2                                                                                    | 1                                                                                    | 2                                                                                    | 0                                                                                    | 28                                                                                   |
| VSWR        | 1.9 : 1                                                                            | 1.9 : 1                                                                            | 1.9 : 1                                                                            | 1.9 : 1                                                                            | 1.9 : 1                                                                            | 1.9 : 1                                                                             | 1.9 : 1                                                                              | 1.9 : 1                                                                              | 1.9 : 1                                                                              | 1.9 : 1                                                                              | 1.9 : 1                                                                              | 2.5 : 1                                                                              |
| 指向性         | Omni                                                                               | Omni                                                                               | Omni                                                                               | Omni                                                                               | Omni                                                                               | Omni                                                                                | Omni                                                                                 | Omni                                                                                 | Omni                                                                                 | Omni                                                                                 | Omni                                                                                 | Omni                                                                                 |
| インピーダンス (Ω) | 50                                                                                 | 50                                                                                 | 50                                                                                 | 50                                                                                 | 50                                                                                 | 50                                                                                  | 50                                                                                   | 50                                                                                   | 50                                                                                   | 50                                                                                   | 50                                                                                   | 50                                                                                   |
| 重量 (g)      | 13                                                                                 | 13                                                                                 | N/A                                                                                | N/A                                                                                | 13                                                                                 | 33                                                                                  | 13                                                                                   | 37                                                                                   | 13                                                                                   | 37                                                                                   | 13                                                                                   |                                                                                      |
| 取付法         | Connector                                                                          | Connector                                                                          | Connector                                                                          | Connector                                                                          | Connector                                                                          | Connector                                                                           | Connector                                                                            | Connector                                                                            | Connector                                                                            | Connector                                                                            | Connector                                                                            | Connector                                                                            |
| 画像          |  |  |  |  |  |  |  |  |  |  |  |  |

## 内蔵型アンテナ

| Application | Bluetooth, WLAN (WiFi), ZIGBEE, ISM                                                 |                                                                                     |                                                                                     | WLAN (WiFi) Dual Band                                                               |                                                                                     | CDMA                                                                                 | GSM+DCS+PCS                                                                           | GSM+GPS+PCS                                                                           | UWB                                                                                   | Custom Designs                          |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|
| 周波数 (MHz)   | 2400 ~ 2500                                                                         |                                                                                     |                                                                                     | 2400 ~ 2500 + 4900 ~ 5900                                                           |                                                                                     | 824 ~ 894                                                                            | 880 ~ 960 + 1710 ~ 1880 + 1850 ~ 1990                                                 | 880 ~ 960 + 1710 ~ 1880 + 1850 ~ 1990                                                 | 2080 ~ 7500                                                                           | Optional (WiMAX, WiFi, Bluetooth, etc.) |
| 型番          | W5I-BF-XX                                                                           | W5I-BO-XX                                                                           | W5I-BP-XX                                                                           | W5I-VM-XX                                                                           | W5I-WO-XX                                                                           | W5I-CO-XX                                                                            | W5I-GDUP-XX                                                                           | W5I-GGUP-XX                                                                           | W5E-UCO-XX                                                                            | N/A                                     |
| サイズ (mm)    | 10 x 4 x 1.2                                                                        | 48 x 8 x 1                                                                          | 24 x 3 x 2 (optional)                                                               | 10 x 4 x 1.2                                                                        | 50 x 8 x 1                                                                          | 48 x 8 x 1                                                                           | 50 x 8 x 1                                                                            | 50 x 8 x 1                                                                            | 40 x 6 x 1                                                                            | Optional                                |
| 最大利得(dBi)   | 2                                                                                   | 2                                                                                   | 2.5                                                                                 | 2                                                                                   | 2                                                                                   | 1 ~ 2                                                                                | 1 ~ 2                                                                                 | 1 ~ 2                                                                                 | 1 ~ 3                                                                                 | 0 ~ 2                                   |
| VSWR (Max.) | 1.9 : 1                                                                             | 1.9 : 1                                                                             | 1.9 : 1                                                                             | 1.9 : 1                                                                             | 1.9 : 1                                                                             | 2.5 : 1                                                                              | 3.0 : 1                                                                               | 3.0 : 1                                                                               | 3.0 : 1                                                                               | 1.9 ~ 3.0                               |
| 指向性         | Omni                                                                                | Omni                                                                                | Omni                                                                                | Omni                                                                                | Omni                                                                                | Omni                                                                                 | Omni                                                                                  | Omni                                                                                  | Omni                                                                                  | Omni                                    |
| インピーダンス (Ω) | 50                                                                                  | 50                                                                                  | 50                                                                                  | 50                                                                                  | 50                                                                                  | 50                                                                                   | 50                                                                                    | 50                                                                                    | 50                                                                                    | 50                                      |
| 重量 (g)      | 0.2                                                                                 | 2                                                                                   | 1                                                                                   | 2                                                                                   | 2                                                                                   | 3                                                                                    | 3                                                                                     | 3                                                                                     | 2                                                                                     | 2                                       |
| 取付法         | SMT                                                                                 | Tape, Solder                                                                        | Hook, SMT, Soldering                                                                | SMT                                                                                 | Tape, Solder                                                                        | Tape, Solder                                                                         | Tape, Solder                                                                          | Tape, Solder                                                                          | Tape, Solder                                                                          | Optional                                |
| 画像          |  |  |  |  |  |  |  |  |  |                                         |



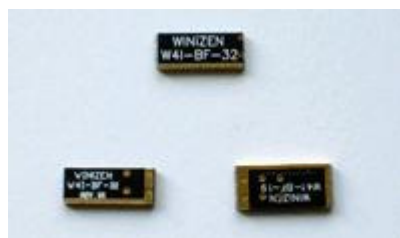
Hewlett Packard 8722ES 50 MHz ~ 40 GHz  
S-Parameter Network Analyzer



## 測定構成例



WLAN マルチバンドアンテナ



チップアンテナ



GSM-DCS-PCM トライバンド・アンテナ



WLAN ハイゲイン・ダイポール

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