

W-AIR Datasheet

W-AIR System Highlights

- DECT CAT-iq
- G.729 and G.711 narrow band codecs
- G.722 wideband codec
- Sync over the air
- LDAP support
- Seamless handover
- Repeater support (up to 3 repeaters in chain)
- Auto provisioning
- Access to shared corporate phonebooks
- Users presence status monitoring
- Lone worker alarms (W-AIR 150)
- W-AIR base Multicell Auto Roaming feature

W-AIR System Architecture

W-AIR base station is the basic component of the DECT System. Wildix offers three types of base stations: W-AIR Base (multicell), W-AIR Outdoor Base (multicell) for extreme conditions and W-AIR Small Business Base (single cell).

W-AIR Repeaters extend the signal coverage of base stations.

W-AIR Base / W-AIR Outdoor Base System:

- Up to 1000 users
- Up to 30 users registered to one base
- Up to 250 bases per system
- Up to 8 concurrent calls per base
- Up to 8 concurrent handovers
- Up to 400 concurrent calls per system
- Up to 3 repeaters per base
- Up to 5 concurrent calls per repeater
- Up to 100 repeaters registered to one system
- Multicell Auto Roaming feature (up to 200 sites)

W-AIR Small Business System:

- 8 users
- Up to 4 concurrent calls
- Up to 3 repeaters
- No multicell



W-AIR Base
(code: WAIR-BASE)



W-AIR Base Outdoor
(code: WAIR-BASE-OUT)



W-AIR Base Small Business
(code: WAIR-BASE-SB)



W-AIR Repeater
(code: WAIR-REP)

W-AIR handsets offer access to corporate phonebooks and users presence information. W-AIR 150 is provided with lone-worker alarms including alarm button and pull cord.



W-AIR 70 (code: WAIR70)
with clip belt (code: WAIR70-PC)



W-AIR 100 (code: WAIR100)
with belt clip (included) and
case (code: WAIR100-PC)



W-AIR 150 (code: WAIR150)
with belt clip, alarm button and
pull cord (included)

W-AIR Bases

W-AIR Base



W-AIR Outdoor Base



W-AIR Small Business Base



System capacity	<ul style="list-style-type: none"> Up to 1000 users per system Up to 30 users registered to 1 base Up to 250 bases per system <ul style="list-style-type: none"> - W-AIR Base Station / W-AIR Base Outdoor Up to 8 concurrent calls per base <ul style="list-style-type: none"> - 8 narrow band channels - 4 CAT-iq wideband channels Up to 8 concurrent handovers per base Up to 400 concurrent calls per system Up to 3 repeaters per base <ul style="list-style-type: none"> - Up to 50 bases - 3 repeaters - 50 - 125 bases - 1 repeater - 125 - 250 bases - no repeater Up to 5 concurrent calls per repeater Up to 100 repeaters per system 	<ul style="list-style-type: none"> Up to 1000 users per system Up to 30 users registered to 1 base Up to 250 bases per system <ul style="list-style-type: none"> - W-AIR Base Station / W-AIR Base Outdoor Up to 8 concurrent calls per base <ul style="list-style-type: none"> - 8 narrow band channels - 4 CAT-iq wideband channels Up to 8 concurrent handovers per base Up to 400 concurrent calls per system Up to 3 repeaters per base <ul style="list-style-type: none"> - Up to 50 bases - 3 repeaters - 50 - 125 bases - 1 repeater - 125 - 250 bases - no repeater Up to 5 concurrent calls per repeater Up to 100 repeaters per system 	<ul style="list-style-type: none"> Up to 8 users per system Up to 4 concurrent calls Up to 3 repeaters per base NO MULTICELL
Ethernet	<ul style="list-style-type: none"> 1 x RJ45 10/100 BASE-T 	<ul style="list-style-type: none"> 1 x RJ45 10/100 BASE-T 	<ul style="list-style-type: none"> 1 x RJ45 10/100 BASE-T
Power Supply	<ul style="list-style-type: none"> PoE 802.3af Class 2 Max power consumption: 4W 	<ul style="list-style-type: none"> PoE 802.3af Class 2 Max power consumption: 4W 	<ul style="list-style-type: none"> PoE Splitter: PoE 802.3af Class 3 Input: DC 48V; Output: DC 5V 2A Power consumption 3.84 - 6.49W
Environmental conditions & size	<ul style="list-style-type: none"> IP20 Size: 150x200x28 Temperature range: -10 to 50° C 	<ul style="list-style-type: none"> IP55 rated protection Suitable for outdoor or cold environments Impact strength IK 08 Size: 175x250x75 Temperature range: -20 to 60° C Flammability Tested against UL746C 5V Nano coated RTX8660 PCB Ultraviolet light exposure protected Water exposure in accordance with UL 746C 	<ul style="list-style-type: none"> IP20 Size: 118x180x25 Temperature range: -10 to 50° C

W-AIR System Installation Scheme




Intelligent Networking configuration with W-AIR Bases / W-AIR Outdoor Base:



Small Business Solution with W-AIR Small Business Base:



W-AIR Handsets

	W-AIR 70 	W-AIR 100 	W-AIR 150 
Audio	<ul style="list-style-type: none"> G722 codec for HD audio HD audio speakerphone HAC compliant (TIA-1083) 	<ul style="list-style-type: none"> G722 codec for HD audio HD audio speakerphone HAC compliant (TIA-1083) 	<ul style="list-style-type: none"> G722 codec for HD audio HD audio speakerphone HAC compliant (TIA-1083) Ambient noise reduction, using 2 mic's Loudspeaker volume: >=100dBspl Speakers insensitive to metal swarf
Display	<ul style="list-style-type: none"> 1,44" 128x128 pixels 64k TFT display multilanguage 	<ul style="list-style-type: none"> 2" 176x220 pixels 262K color TFT display multilanguage 	<ul style="list-style-type: none"> 2" 176x220 pixels 64k TFT display multilanguage
Keypad	<ul style="list-style-type: none"> 21 keys total 2 soft keys ON- and OFF-hook keys 	<ul style="list-style-type: none"> 27 keys total 3 soft keys, 3 sidekeys ON- and OFF-hook keys 	<ul style="list-style-type: none"> 28 keys total 3 soft keys, 3 side keys 1 alarm key on top ON- and OFF-hook keys
Headset options	<ul style="list-style-type: none"> 3.5mm headset jack Compatible headsets: WHS-MONO, WHS-DUO 	<ul style="list-style-type: none"> 3.5mm headset jack Compatible headsets: WHS-MONO, WHS-DUO 	<ul style="list-style-type: none"> 3.5mm headset jack Bluetooth Compatible headsets: WHS-MONO, WHS-DUO, WHS-BT
Compatible headsets: https://manuals.wildix.com/headsets/			
Ringer	<ul style="list-style-type: none"> Volume control, Silent ringer Adjustable alert (low battery, low coverage) Handsfree mode (Loudspeaker) 	<ul style="list-style-type: none"> Volume control, Silent ringer Adjustable alerts (low battery, low coverage) Handsfree mode (Loudspeaker) Vibrator 	<ul style="list-style-type: none"> Volume control, Silent ringer Adjustable alert (low battery, low coverage) Handsfree mode (Loudspeaker) Vibrator
DECT	<ul style="list-style-type: none"> Frequency bands: 1880 - 1900MHz (EU) 1920 - 1930MHz (US) Range: Indoor: 50m; Out-door: 300m One antenna Encryption supported 	<ul style="list-style-type: none"> Maximum transmission power: EU: 250mW (24.0dBm) US: 100mW (20.0dBm) Frequency bands: 1880 - 1900MHz (EU) 1920 - 1930MHz (US) Range: Indoor: 50m; Outdoor: 300m One antenna Encryption supported 	<ul style="list-style-type: none"> Maximum transmission power: EU: 250mW (24.0dBm) US: 100mW (20.0dBm) Frequency bands: 1880 - 1900MHz (EU) 1920 - 1930MHz (US) Range: Indoor: 50m; Outdoor: 300m Two antennas, fast diversity Encryption supported
Features	<ul style="list-style-type: none"> PBX phonebook Local phonebook with 50 entries Call waiting, Conference call, Call Swap 	<ul style="list-style-type: none"> PBX phonebook Local phonebook with 100 entries Call waiting, Conference call PTT (Push to talk) Multisite registration 	<ul style="list-style-type: none"> PBX phonebook Local phonebook with 250 entries Call waiting, Conference call, Call Swap PTT (Push to talk) Multisite registration
Alarms			<ul style="list-style-type: none"> Alarm key, Pull cord, ManDown, Running, Idle
Size and Weight	<ul style="list-style-type: none"> Size: 41 x 135 x 25mm Weight: 108g 	<ul style="list-style-type: none"> Size: 140 x 48 x 25mm Weight: 136g <p>NOTE: Belt clip case is available as an article on demand, code: WAIR70-PC</p>	<ul style="list-style-type: none"> Size: 152 x 48 x 28mm Weight: 175g
Performance	<ul style="list-style-type: none"> Talk time: 8h(NB), 7h(WB) Standby time: 75hours Charge time: 10 hours 	<ul style="list-style-type: none"> Talk time: 18h(NB), 12h(WB) Standby time: 200hours Charge time: 5 hours 	<ul style="list-style-type: none"> Talk time: 17h(NB), 12h(WB) Standby time: 200 hours Charge time: 6 hours
Environmental	<ul style="list-style-type: none"> IP20 housing Operating conditions: 0 to 40°C 	<ul style="list-style-type: none"> IP20 housing Operating conditions: -10 to 50°C 	<ul style="list-style-type: none"> IP65 compliant; Shock proof Enhanced ESD: 8kV contact and 16kV air Operating conditions: -15 to 55°C
Reliability specifications	<ul style="list-style-type: none"> Drop height: 1m Keypad lifetime: 40.000 presses Keypad abrasion: Standard 	<ul style="list-style-type: none"> Drop height: 1.7m on wooden floor Keypad lifetime: 100.000 presses Keypad abrasion: 40 RCA cycles 	<ul style="list-style-type: none"> Drop height: 2m on concrete floor Tumble test: 1000 x 0.5m Keypad lifetime: 100.000 presses Keypad abrasion: 70 RCA cycles
Approvals	<ul style="list-style-type: none"> Radio: EN 301 406 EMC: EN 301 489-1, EN 301 489-6 Safety: EN 60950-1; FCC part 15 	<ul style="list-style-type: none"> Radio: EN 301 406 EMC: EN 301 489-1 EN 301 489-6 Safety: EN 60950-1; FCC part 15 	<ul style="list-style-type: none"> Radio: EN 301 406 EMC: EN 301 489-1 EN 301 489-6 Safety: EN 60950-1; FCC part 15
Belt clip and case	<ul style="list-style-type: none"> Optional belt clip (code: WAIR70-PC) 	<ul style="list-style-type: none"> Optional case (code: WAIR100-PC) Belt clip included 	<ul style="list-style-type: none"> Belt clip included