Datasheet

ACS-WLDCU | Wireless Deligate/Chairman touchscreen Unit



Key features

- Flexible User Configuration: Can be set up as Chairman/delegate
- Dual-Channel Connectivity: Supports 5G Wi-Fi and wired network connections
- 4.3-inch capacitive touch screen with NFC card identification support
- Multiple customizable speaking modes: Open, Voice, Override, Apply, PTT, All
- Power Options: Operates via cable, battery, or direct docking
- Integrated Dual Headphone Ports
- Built-In RFID Card Authentication: Includes IC card sign-in and optional voting functionality

Product Overview

The Macsys ACS-WLDCU is a professional wireless delegate/chairman touchscreen unit designed for flexible and secure conferencing. It supports dual-mode operation with wired (100M CAT5e/CAT6) and wireless (IEEE 802.11n, 2.4/5GHz) connections, ensuring seamless switching and stable communication. The 4.3-inch capacitive color touchscreen (800×480) provides a multilingual interface, while the built-in NFC reader (ISO/IEC14443 Type A) enables quick participant authentication and role assignment.

UsinT he unit delivers full digital, lossless audio with 48kHz sampling, 20Hz–20kHz response, >90dB SNR, <0.1% THD, and <5ms mic-to-speaker delay.

Integrated DSP includes a 16-band EQ, AGC, AFC feedback suppression, auto-mix, noise gate, and mic sensitivity adjustment (-12dB to +12dB), ensuring clear and natural sound in any environment.
The ACS-WLDCU supports multiple speaking modes: OPEN, VOICE, OVERRIDE (FIFO), APPLY (request-to-speak), optional Push-to-Talk, and ALL (full open). It allows 1, 2, 4, or 6 simultaneous microphones, expandable up to 32 units.

Software licenses enable advanced features such as voting (two-/three-/five-button), NFC sign-in, dual 64-channel simultaneous interpretation, and dual-user camera tracking.

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Power is provided by a 6500mAh Li-ion battery, supporting ≥28 hours in power-saving mode and ≥14 hours with display active. Charging options include microphone base, PoE, or USB. Intelligent battery management shows status on the unit, web server, or PC software.

Reliability is enhanced with dual headphone jacks (independent volume, dual interpretation channels), hot plug-and-play with auto recovery, and loop/star network topologies for fault tolerance. Security is ensured with 128-bit AES encryption and WPA/WPA2 standards, preventing unauthorized access.

The compact unit supports pluggable gooseneck microphones of different lengths and analog-digital dual backup microphones. Interfaces include two RJ45 ports, dual headphone jacks, a stereo input, and an IC card slot.

The ACS-WLDCU is ideal for government, corporate, and enterprise applications. With secure connectivity, intelligent features, and superior audio performance, it delivers reliable and future-ready conference management

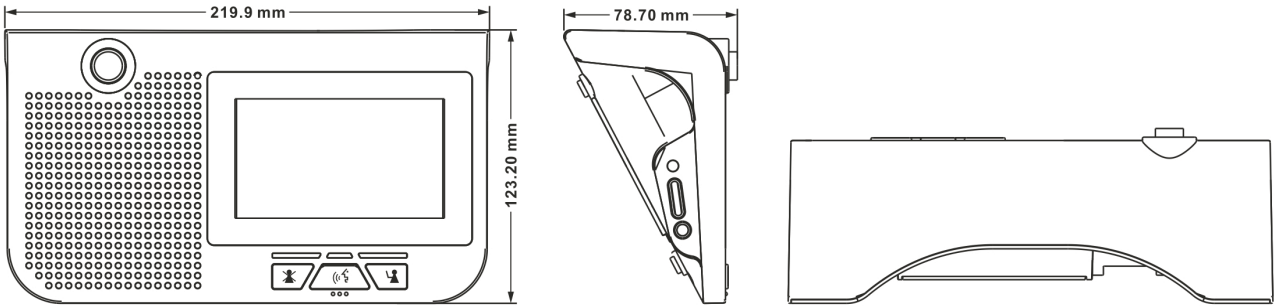
Techinical Specification

Featues	Detail
Product name	Wireless Delegate/Chairman Touchscreen Unit
Roles	Configurable: Chairman, Delegate, VIP, Dual-User
Display	4.3-inch capacitive multi-touch, 800×480 resolution
Protocol	AUDIOCON full-digital IP conference protocol
Connectivity (wireless)	IEEE 802.11n Wi-Fi, dual-band 2.4 GHz and 5 GHz; dual-simultaneous link with wired; seamless channel switching
Connectivity (wired)	100M IP over CAT5e/CAT6; loop and star topologies; hot-plug; two RJ45 ports (per wired spec sheet)
Encryption/Security	128-bit AES; WPA/WPA2 wireless security
Audio sampling/bandwidth	48 kHz sampling; 20 Hz–20 kHz frequency response
Dynamic range / SNR / THD	Dynamic range > 90 dB; SNR ≥ 90 dB; THD < 0.1% at rated level
System latency	Mic to speaker output < 5 ms
DSP (host/system)	16-band EQ, limiter, noise gate voice-pass, AGC, AFC feedback suppression, auto-mix
On-unit audio control	Per-unit sensitivity −12 dB to +12 dB; 8-band EQ enable/disable/reset
Microphone indicators	Two-color LED ring: red = speaking, green = request; MIC on/off indicator
Speaking modes	OPEN, VOICE (auto VOX), OVERRIDE/FIFO, APPLY (request), optional PTT, optional ALL-open
Active mics limit	1 / 2 / 4 / 6 (up to 32 units in full-open mode)
VIP logic	Up to 32 VIP units; can open freely as long as total active mics ≤ 8 (wired spec context)
Dual-user	Two participants share one unit; independent sign-in, vote, camera tracking positions
Interpretation	Dual 64-channel selector; up to 64 language channels; dual headphone outputs can monitor different channels simultaneously; auto floor; channel lock; booth setup
Voting	Two/three/five-key voting; supports ballot, election, rating; real-time bar charts; chair start/stop; unit voting authority configurable (license required)
NFC sign-in	Built-in NFC reader; named sign-in with user image/fields (license required)
Service calls	One-touch requests (tea/paper/pen) to software console
Headphone outputs	Dual 3.5 mm stereo jacks; 16 Ω load; volume via touch + knob; HP output nominal 10 mW
Local speaker	2 W @ 8 Ω high-fidelity; auto-mute when speaking to prevent howling

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Featues	Detail
External input	3.5 mm stereo input (per wired spec sheet)
Mic input performance	Nominal 80 dB SPL; Max 125 dB SPL (THD < 3%); Sensitivity −46 dB V/Pa
Powering	Battery operation, base charging, and PoE network charging supported
Power / consumption	48 VDC system; 2.8 W (wireless, battery powered); 3.4 W (with line PoE)
Battery	7.4 V, 6500 mAh; ≥ 28 h (power-saving, continuous speech); ≥ 14 h (performance mode, screen highlighted)
Unit management	Visual battery management on unit/web/PC; unit info (type/ID/vote/speak/version)
ID and authority	ID edit via host; unit authority (speak/vote/sign-in) via software; chair priority/consent
Software suite	Connection/network setup, microphone mode/limits, voting/election/rating, sign-in (incl. NFC), personnel database, dynamic text, interpretation mapping, camera tracking (license required for selected features)
Firmware	Upgrade via wired and wireless; logo/function customization
Operating UI	Home screen with dual interpreter channels, analog+digital clock/time/date; quick access to MIC mode and Active MIC limit
Auto shutdown	Wireless unit auto-off ~5 minutes after AP disconnect/no signal
Wired/wireless switch	Automatic failover to AP via rear host AP port; removal of cable without interrupting speech
SSID/rooms	Configurable SSID names mapping to conference rooms 0–3; on-unit room selection
Topologies	Hand-in-hand loop and star; replace single unit/cable without system impact
Call Services	One-key customizable service requests (paper, pen, tea)
Camera tracking	Supports integration with camera and tracking controller for auto tracking
Interfaces (panel)	Pluggable gooseneck base; dual 3.5 mm HP; 3.5 mm stereo input; 2× RJ45; IC card slot; MIC and volume indicators
Mechanical	Desktop; 217.5 L × 138.5 W × 69 H mm; 1.0 kg; color: black
Environment	Operating 5 °C to +55 °C; RH < 90%
Certifications	CE, RoHS compliance

Dimension



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