



ATND8677a Microphone Desk Stand with Dante™ Network Output



Network Microphones

Features

- Connects directly to network via Ethernet cable—no soldering or additional cable required
- Integrated user switch controls talk/mute in Local mode and triggers Dante-enabled devices in Remote mode
- Local or remote control of gain, low-cut UniSteep® filter, red/green LED status indicator and phantom power
- Powered by network PoE
- Scalable across Dante's 512 bidirectional audio channels
- Touch-sensitive capacitive-type user switch
- UniSteep® filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- 3-pin XLR-type input for quick mounting of any gooseneck microphone with an XLRM-type output
- Heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone

Description

The ATND8677a is a Dante-enabled microphone desk stand for use with any gooseneck microphone with a three-pin XLRM-type output connector. The desk stand is designed for surface-mount applications such as high-quality sound reinforcement, conferencing, distance learning and other demanding sound pickup applications.

The desk stand features a touch-sensitive capacitive-type user switch with integral red/green LED status indicator. In Local mode the user switch mutes and unmutes the microphone. It can be set to toggle between live and muted audio (toggle on/off), to permit live audio only while the switch is pressed (press to talk), or to mute the audio while the switch is pressed (press to mute). In Remote mode the user switch can be used to trigger functions on compatible Dante-enabled devices, such as a video camera's pan/tilt or a room's lighting preset. While in Remote mode the desk stand's audio output is controlled remotely. An integral 80 Hz low-cut UniSteep® filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations. A three-position input gain level selector permits trim adjustment to accommodate louder and softer voices. The desk stand provides 12V DC phantom power by default, which can be switched off and on.

The gain, low-cut UniSteep® filter, red/green LED status indicator and phantom power can all be controlled locally or remotely via third-party software.* Recessed buttons on the bottom of the desk stand allow user to configure the desk stand settings locally. Audio, low-cut, gain and phantom power settings can be locked in Local mode by pressing and holding the lock button. This lock will prevent end users from adjusting the settings. Default settings for the stand are as follows: audio toggle on/off (with audio muted at power up), low-cut filter off, +30 dB input gain, phantom power on.

The audio output of the ATND8677a can be routed using Audinate's Dante Controller, which is available for download at the Audinate website (www.audinate.com). The site also provides Dante routing and software instructions.

The desk stand's heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone. The stand features a low-reflectance black finish.

Installation and Operation

The ATND8677a is powered by network PoE.

The electronics in the desk stand take up to 30 seconds to stabilize after power is applied.

The desk stand features a touch-sensitive user switch with integral red/green LED status indicator. In Local mode, which is the default, the user switch mutes and unmutes the audio. The Local mode settings for the user switch—as well as the low-cut UniSteep® filter, input gain level and phantom power—can be adjusted by pressing the appropriate recessed button on the bottom of the desk stand.

The user switch has four Local settings (see User Switch Settings and Functions in Local Mode below) that can be chosen by pressing the button beneath "SWITCH FUNCTION" and "DEFAULT MODE." The default setting is TOGGLE ON/OFF (with audio muted at power up). Press the button once to change setting to TOGGLE ON/OFF (with audio on at power up). In both settings the user switch will toggle between mute and unmute—the only difference is the status of the audio when the desk stand is turned on. Press the setting button a second time to select MOM. ON (momentary on), wherein the audio will be on only while the user switch is being pressed (press to talk). Press the setting button a third time to select MOM. OFF (momentary off), wherein the audio will be muted while the user switch is being pressed (press to mute). Press the setting button a fourth time to cycle the setting back to the default. The "SWITCH FUNCTION" and "DEFAULT MODE" LEDs will illuminate red or green to indicate the current setting.

Turn the low-cut UniSteep® filter on and off by pressing the button beneath "LOW CUT" on the bottom of the desk stand. The filter is off by default. The LED above "LOW CUT" illuminates red when the filter is off, green when it is on.

There are three input gain levels that can be selected: +30 dB (for loudest voices), +40 dB and +50 dB (for softest voices). To adjust the gain level, press the button beneath "GAIN" on the bottom of the desk stand. Pressing the button once changes the level from +30 dB to +40 dB, pressing it again changes the level to +50 dB and pressing a third time returns the level to +30 dB. The LED above "GAIN" illuminates green for +30 dB, orange for +40 dB and red for +50 dB.

By default, the desk stand supplies 12 V DC of phantom power, which is required by most gooseneck microphones. Phantom power can be turned off by pressing the button beneath "PHANTOM" on the bottom of the desk stand. The LED above "PHANTOM" illuminates green when power is on and red when it is off.

To lock the Local settings, press and hold the button beneath "LOCK" on the bottom of the desk stand. Press and hold again to unlock settings. The LED above "LOCK" will illuminate red when locked and remain unlit when not locked. If a setting button is pressed while the lock is on, the LOCK LED will blink.

All LEDs on the bottom of the desk stand will turn off seven seconds after the last button is pressed. Pressing any button will cause the LEDs to relight.

To return the desk stand to its default Local settings, press the GAIN and LOW CUT buttons simultaneously.

ATND8677a

The desk stand can also be controlled remotely via third-party software.* When this software is used it will override local control, causing the audio to remain on and the red/green LED status indicator, low-cut filter, input gain level and phantom power to be controlled remotely. In Remote mode the desk stand's user switch can be programmed to trigger functions on compatible Dante-enabled devices. When in remote mode the Remote LED is illuminated.

Avoid leaving the desk stand in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

Note: Placing any object on a surface (such as a conference table) before its finish is fully cured may result in damage to the finish.

Architect's and Engineer's Specifications

The ATND8677a microphone desk stand shall be designed to work with any dynamic gooseneck or phantom-powered condenser gooseneck microphone with an integral 3-pin XLRM-type output connector. The unit shall offer a 3-pin XLRF-type input connector and an RJ45 type output connection using standard network protocol. It shall have a frequency response of 20 Hz to 20,000 Hz. An 80 Hz "low cut" switch shall be provided to tailor the low-frequency response to minimize pickup of unwanted sounds; it shall be selectable both locally and remotely via third-party software.* There shall be three gain levels: +30 dB, +40 dB, and +50 dB, selectable both locally and remotely via third-party software.* The desk stand shall have an input impedance of 1.4 kΩ. It shall be capable of supplying 12V DC of phantom power, selectable both locally and remotely via third-party software.* In the Local mode, the device shall function as a standard, switch-controlled microphone desk stand with muting taking place at the stand. In the Remote mode, the stand shall become disengaged from the switching circuit, allowing the switch to control external functions over the network.

The desk stand shall have a maximum width of 93.8 mm (3.69"), a maximum length of 133.0 mm (5.24") and a maximum height of 46.2 mm (1.82"). Weight shall be 770 g (27.2 oz). The finish shall be low-reflectance black.

The desk stand shall be capable of driving a Dante audio flow.

The desk stand shall accept IEEE802.3af standard PoE as power input. The stand shall consume less than 1.5W.

The desk stand shall be compliant with FCC Part15, CE and RoHS requirements.

The Audio-Technica ATND8677a is specified.

*For a list of compatible third-party software consult the ATND8677a product profile at Audio-Technica.com.

User Switch Settings and Functions in Local Mode

Control	User Switch Mode	Switch Function LED Color	Default Mode LED Color
Default	Toggle (mute on power up)	Green	Red
1st Press	Toggle (talk on power up)	Green	Green
2nd Press	Press to Talk	Red	Red
3rd Press	Press to Mute	Red	Green

Specifications

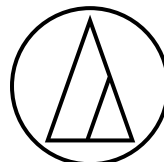
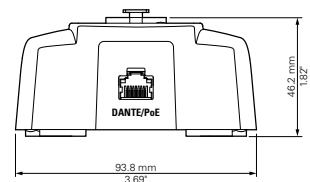
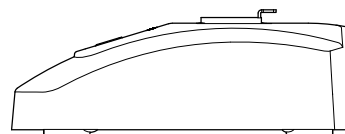
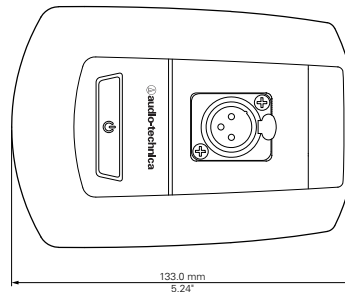
Frequency response	20-20,000 Hz
Low frequency roll-off	80 Hz, 18 dB/octave
Input impedance	1.4 kΩ
Maximum input levels	-10 dBu @ +30 dB gain -20 dBu @ +40 dB gain -30 dBu @ +50 dB gain
Signal-to-noise ratio ¹	68 dB, 1 kHz at 1 Pa
Power requirements	PoE IEEE802.3af standard
Power consumption	1.5W
Microphone phantom power	12V DC
Switches	Local Mode: Touch-sensitive capacitive-type user switch function: toggle (mute on power up), toggle (talk on power up), momentary on, momentary off; Low-cut filter: flat, roll-off; Gain: +30 dB, +40 dB, +50 dB; Phantom power: 12V DC, off Remote Mode: Low-cut and Gain via third-party software*
Weight	770 g (27.2 oz)
Dimensions	133.0 mm (5.24") maximum length, 93.8 mm (3.69") maximum width, 46.2 mm (1.82") maximum height
Input connector	3-pin XLRF-type
Output connector	Physical level: standard Ethernet Connector: single RJ45
Dante network	Cable quality: Shielded CAT5 or CAT6 recommended Transmission speed: 100 Mbps

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

¹ 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



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