



Cockpit management
gets a real helping
hand with audio
“instant replay”
of ATC clearances.

GMA 347 audio panel specifications

Garmin's GMA 347 audio panel is a welcome addition to the avionics stacks of pilots who fly in busy airspace. New automated features help minimize inputs, streamline workloads, enhance safety of flight and improve communications between flight crews, ground controllers and passengers.

One smart new feature is the GMA 347's automatic digital voice recorder – which continuously captures the last two-and-one-half minutes of audio switched through the panel. So, if a pilot should ever miss an assigned frequency or part of a clearance, a simple press of the "Play" button recalls the message for instant review.

In addition, Garmin has added a full-duplex telephone interface with intercom isolation and disable capability. This feature allows private telephone calls by the pilot or copilot, or multi-party conference calls with crew and/or passengers.

Garmin has also included three new unmuted, unswitched inputs, with individual volume controls, to accommodate additional audio capabilities. And to make the entire audio experience quieter and clearer, Garmin has provided an automatic squelch option to filter out radio static and interference. Yet, for those situations when faint, far-off audio signals can be blanked by ambient noise, the GMA 347 also retains a manual squelch adjustment.

For ease of maintenance, the GMA 347 integrates a "configuration module" into its design. So, should the unit ever need to be removed from the panel, the system configuration will make sure that the pilot's preferred audio settings are automatically loaded into the unit when it's returned to service.

The Garmin GMA 347: It's all about using higher technology to lower pilot workloads.

General	
TSO Compliance:	TSO-C50c TSO-C35d using DO-160D, DO-170, DO-143, and DO-178B
Weight:	1.71 lbs
Physical dimensions:	Length: 7.79" (depth behind panel, with connectors) Width: 6.29" Height: 1.3"
Power Requirements:	Supply voltage: 11-33 Vdc Operating current: 3.75A (13.8V, spkr on)
Temperature range:	-45°C to +70°C (normal operation)
Altitude:	55,000 MSL unpressurized
Marker beacon receiver	
Frequency:	Crystal controlled at 75 Mhz
Sensitivity:	LO 1000 uV hard HI 200 uV hard
Selectivity:	6 dB @ +/- 10kHz min. 40 dB @ +/- 200 kHz max.
Input impedance:	50 ohms
External lamp drive:	125 mA max each output
Other outputs:	Middle MKR sense
Audio panel	
Transceiver inputs:	3
Receiver inputs:	6
Unswitched inputs:	4
Input impedance:	500 ohms
Input isolation:	60 dB min
Intercom	
Positions:	6 (pilot, copilot, 4 passengers)
Volume controls:	3 (pilot, copilot, passengers)
VOX level controls:	2 (pilot, copilot/passengers)
VOX circuits:	6 (one per mic input)
Music inputs (stereo):	2 (one input mutable)
Intercom isolation modes:	4 (pilot, copilot, crew, all)
Speaker outputs	
Outputs selectable:	One, pilot selectable
Output power:	10 Watts into 4 or 8 ohms, any normal supply voltage.
Frequency response:	350 Hz to 6 kHz nom
Special functions:	PA Mode, pilot selectable
Headphone outputs	
Output amplifiers:	3, stereo (pilot, copilot, passengers)
Power:	100 mW per stereo channel, each headset, into 150 ohms with not more than 5% distortion, any normal supply voltage.
Frequency response:	
Music:	50 Hz to 20 kHz nom
A/C radio:	200 Hz to 6 kHz nom
ICS mic:	(Special cabin noise band de-emphasis)



Garmin International, Inc.
1200 East 151st Street, Olathe, KS 66062
p: 913.397.8200 f: 913.397.8282

Garmin (Europe) Ltd. Unit 5, The Quadrangle, Abbey Park Industrial Estate,
Romsey, SO51 9DL, U.K. 44.1794.519944 fax 44.1794.519222

Garmin Corporation, No. 68, Jangshu 2nd Road, Shijr, Taipei County,
Taiwan 886.2.2642.9199 fax 886.2.2642.9099