

PS Engineering PMA8000B Comparison to GARMIN GMA340

Below is a detailed description of specific differences in capabilities and functionality between the PMA8000B series and the GARMIN GMA340. These comparisons were made using side by side functional tests of production units on March 27, 2006 and was updated on May 15, 2007.

These comparisons were made in a laboratory environment and every effort was made to make these comparisons as accurate as possible. However, PS Engineering does not warrant the accuracy of these comparisons and provides this information for reference only.

Plug and Play - Audio Panel Comparison Chart

FEATURE	PMA8000B	GMA340	ADVANTAGE
Automatic VOX Intercom Squelch ¹	Yes	No	PS
Digital Recorder or Playback Volume Control ²	Yes	No	PS
Monitor Mode (Great for Single Pilot IFR) ³	Yes	No	PS
Cellular Telephone Interface ⁴	Yes	Yes*	PS
Front Panel Utility Jack ⁵	Yes	No	PS
Pilot Selectable Audio Panel Configurations	Yes	No	PS
Alternative Intercom Operational Mode ⁶	Yes	No	PS
Front Panel Music Volume Control ⁷	Yes	No	PS
Front Panel Music Distribution Control ⁸	Yes	No	PS
Selectable Music for Pilot While In Isolate Mode ⁹	Yes	No	PS
Four Music Muting Modes ¹⁰	Yes	No**	PS
OTHER ADVANTAGES			
Automatic Music Muting during Phone Call	Yes	No	PS
Passenger Music Muting	Yes	No	PS
Front Panel Switched Auxiliary Input	Yes	N/A	PS
Easy Cell Phone Audio Level Adjustment	Yes	No	PS
Front Panel Control of Telephone Sidetone	Yes	No	PS
Differential Music Inputs (eliminates ground loop)	Yes	No	PS
Warranty Period in Years	3	2	PS

*Half-duplex only. **Music mutes only when intercom VOX opened.

¹ **Auto Squelch:** The GMA340 does not have automatic VOX (Voice Operated Relay) and has only two thresholds, one for the pilot, and one for everyone else. The PMA8000B has our patented IntelliVox® system that automatically adjusts the trip level for each mic so the threshold of each individual microphone is operationally optimized in real time. There are no adjustments.

² **Digital Recorder:** The PMA8000B has a built-in digital recorder that allows up to the last 8 messages to be played back. When aircraft radio becomes active, the playback stops.

³ **Monitor Mode:** The Monitor mode allows the pilot to designate one com radio as primary and the second com as the secondary. When the primary radio become active, the secondary com radio will temporarily mute. The Monitor mode can enhance situational awareness when in IFR/IMC environment, eliminating trying to decipher two simultaneous radio receptions.

⁴ **Cellular Telephone Interface:** PMA8000B supports full-duplex telephone interface. The PMA8000BT supports Bluetooth® wireless telephone connection. Using the Com 3 interface, the GMA340 supports half-duplex telephone operation, requiring the pressing of the PTT to communicate. In this mode (Com 3), the PTT will not activate Com 1 or Com 2.

⁵ **Front Panel Utility Jack:** PMA8000B allows you to directly interface (using the front panel utility jack) a music source (iPod), cellular telephone or audio advisories. This jack allows all of the capabilities of the PMA8000B to be immediately realized when it replaces the GMA340. There are no additional jacks, buttons, or wires required to get these functions.

⁶ **Alternate Intercom Function:** "Standard Intercom Function" provides the traditional Isolate, All, and Crew modes. In "Alternate Intercom Function" everyone will be on the intercom but the passengers no longer hear any aircraft radio activity. And when the aircraft radio does become active, the Crew will no longer hear the passengers. This mode keeps everyone in the loop without distracting each other.

⁷ **Front Panel Music Control:** Through the use of front panel buttons, Music volume can also be controlled by the front panel. This provides a great amount of flexibility for entertaining the passengers, as well as the crew if necessary. If a music device is active and connected to Music #1 input and an audio source is connected to the utility jack, (like a GARMIN 396) then the front panel utility jack will automatically be set to act as an unswitched input.

⁸ **Music Distribution:** "Standard Music Distribution, Alternate Music Distribution, or Music Input Number 1 All Headsets". Standard places Music #1 to Crew and Music #2 to passengers. Alternate music distribution places music #1 to All headsets when in the ALL Intercom mode. Alternate places music #1 to all headsets when in the ALL mode, while music #2 turns on to the passengers when in the Crew mode. "Music #1 All headsets" places music #1 to all headsets regardless of the Intercom mode.

⁹ **Music In Isolate:** Pilot can listen to music in ISOLATE mode. Selectable on the front panel.

¹⁰ **Music Muting Modes:** There are four music muting modes selected by the Mute pushbutton. Mute On, Mute Off, Radio Mute, and Intercom Mute. Once selected an aural annunciation will be heard indicating the mute mode is selected. The GMA340 requires an external switch, and when enabled, only disables muting by the intercom, not the radio.

Passenger Muting Control: The PMA8000B can be wired so that the AUX button will control the Mute function for passenger's music.

Easy access adjustable gains: PMA8000B - Speaker, Phone receive, Marker, Function Annunciations, and Unswitched #3 are adjustable from the top and bottom of the chassis.

PMA8000B uses dual 44-pin connectors and is Plug and Play[†] with the GMA340.

PMA8000 series has a 3-year warranty ProSupport. The ProSupport warranty guarantees a warranty exchange unit to be shipped to our dealer if warranty call is placed by 4:00PM EST. 1st year shipping costs paid by PS Engineering.