



GARMIN

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## ACROSS THE COCKPIT OR AROUND THE GLOBE, GARMIN CONNEXT® IS YOUR KEY TO WIRELESS ACCESS

Today's aviation world is a far more interactive, information-driven environment than ever before. Fortunately, with the development of Garmin satellite, network link and in-cockpit wireless connectivity systems (known collectively as Garmin Connex), aircraft operators can now afford to access quality on-demand weather updates, text/voice communications, and other data sharing capabilities designed to streamline and simplify the ways they connect – both in the air and on the ground.

Using onboard link technology, Garmin Connex lets you take advantage of close-range wireless capabilities already built into many tablets and smartphones, enabling information to flow back and forth between those devices and your Connex-capable avionics in the panel. You're able to use your iPad® or other app-compatible device or Garmin portable product as a true cockpit interface – capable of transferring flight plans, wirelessly updating databases, streaming GPS and attitude information, graphically depicting ADS-B linked traffic and weather, controlling SiriusXM® audio entertainment channels and much more. With Garmin Connex, your mobile touchscreen virtually becomes an extra digital control/display in the cockpit.

Likewise, on a vastly more far-reaching scale, Garmin Connex integrated satellite and ground network links can be used to provide a world of seamless connectivity solutions – everything from satellite-based weather and automatic position reporting to sending text messages and initiating voice calls using your existing contacts on a compatible mobile device using the Garmin Pilot™ app – with graphical interface provided on most Garmin glass flight deck displays and select avionics products.



## WIRELESSLY LINK YOUR IPAD® TO YOUR AVIONICS

You can use Garmin Connnext® – via one of our Flight Stream series of wireless gateways in your aircraft – to stream information in real time between your avionics and select Connnext-capable¹ apps and Garmin portables (such as your tablet's Garmin Pilot™ app – or the aera® 660/796/795). That means your portable device can now become a true cockpit interface – capable of transferring flight plans, streaming GPS and attitude information to reveal Garmin Pilot's 3-D synthetic vision display, graphically depicting ADS-B linked traffic and weather, controlling your SiriusXM® system's audio entertainment channels, enabling Database Concierge wireless database transfers, and permitting you to send text messaging and initiate voice calls through your headset, using your existing contacts on a compatible mobile device using Garmin Pilot.

With the wireless mobility that your Flight Stream device provides (this Bluetooth® connectivity also comes built-in with our G3X™ Touch series of non-TSO'd flight displays), you'll enjoy more freedom in everything from preflight planning to inflight decision-making. For example, instead of sitting in a too hot or too cold aircraft while you take the time to manually enter flight plan information into your avionics system, you can now use your tablet's Garmin Pilot app to preload that data from the comfort of your own home or office. Then once you're ready to go to the airport, Connnext lets you wirelessly upload the data – waypoints, airway routings and all – from your tablet to your plane's GTN™ or GNS series navigator during preflight. You can check to see if you've received any modifications to your flight planned routing from ATC – which you can then choose to enter manually or, better yet, opt to have the changes accepted automatically. It's fast. It's easy. It's seamless. And even better, keeping flight plans in sync between your device and your avionics in flight is a cinch: You enter the data on one device, and with a tap or two, your entries are automatically transferred to the other. So there's no duplication of effort on your part when it comes to keeping everything in sync.

Plus, with select avionics, you can also use our Database Concierge feature with the Garmin Pilot app to wirelessly upload database updates (including Jeppesen NavData or Garmin Navigation Database, Obstacle, Terrain, SafeTaxi®, FliteCharts®, Jeppesen-format ChartView™, Basemap and the AOPA Airport Directory) from your mobile device to your avionics. This app-to-avionics interface really saves you time and tedious data entry – so you can complete your preflight checklist items quicker and get airborne sooner.

Better still, we offer bundled packages for your entire panel at a cost-effective price. A Garmin OnePak™ offers every database for your Garmin certified and experimental panel-mount avionics in your cockpit – even Garmin GNS 430W/530W navigators – plus all the databases for one qualified Garmin portable aviation device registered to your flyGarmin.com account and access to Garmin Pilot IFR premium. It doesn't get any easier.

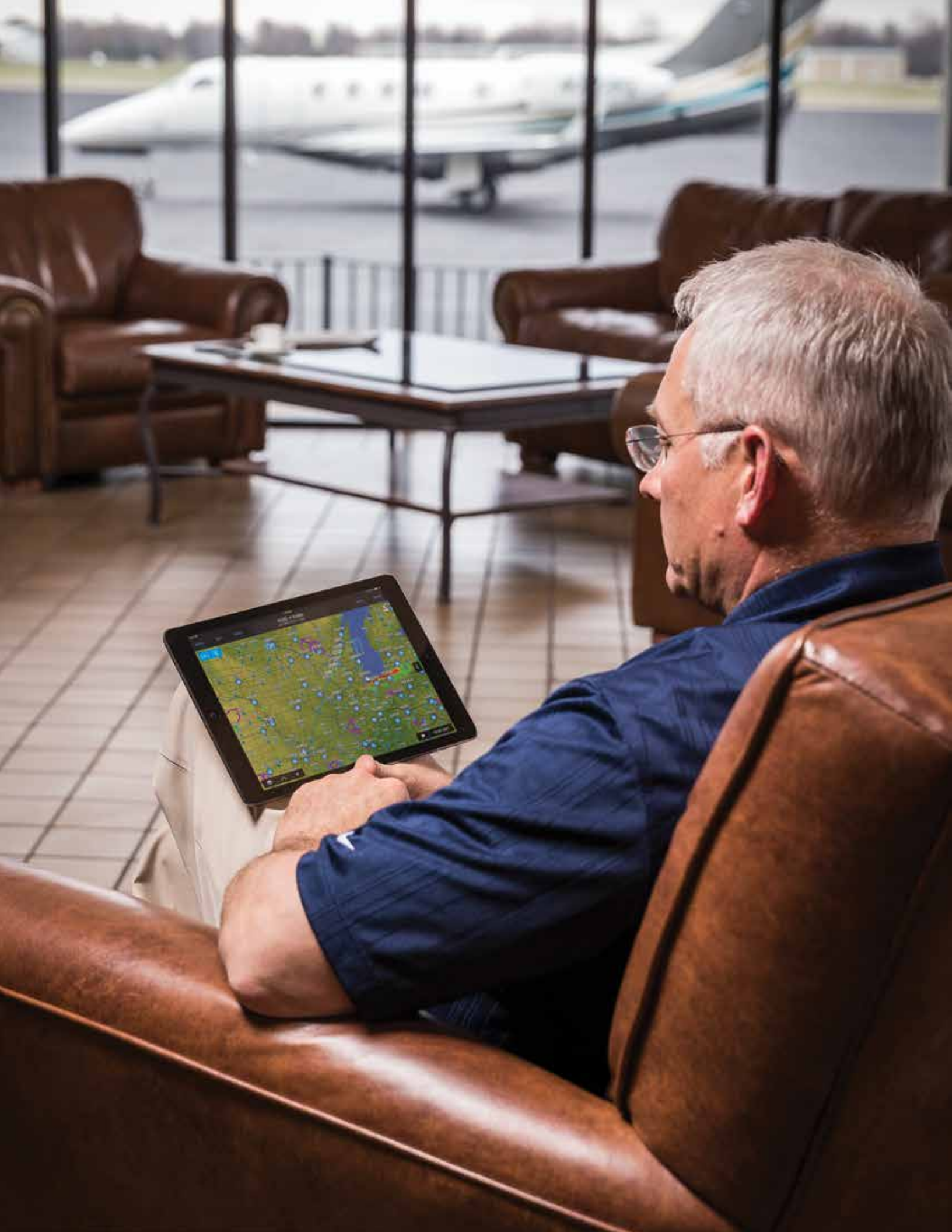
Data sharing with Garmin Connnext: It's all about bringing greater efficiency and work-saving convenience to your cockpit management.



The Garmin Flight Stream 110/210 series of Bluetooth® gateways provide wireless connectivity between your compatible tablet/mobile device and your avionics. The Flight Stream 110 is designed to be paired directly with a GDL 84® or GDL 88 ADS-B datalink, providing the benefits of these products without the need for an installed display in the cockpit. The Flight Stream 210 adds connectivity with your GTN 750/650 or GNS 430/530W series navigators, enabling select Connnext-capable¹ apps and Garmin portables to access graphical weather, traffic, GPS and backup attitude input for even more situational display capability in your cockpit. The Flight Stream 510 offers connectivity to GTN series navigators and adds Database Concierge for wireless database updates. (Note: Flight Stream 510/210/110 devices stream only the available information from your installed avionics.)

GARMIN COMPARISON	FLIGHT STREAM 110	FLIGHT STREAM 210	FLIGHT STREAM 510
Industry-leading GPS	X	X	X
ADS-B Weather / Traffic	X	X	X
SiriusXM Weather	X	X	X
SiriusXM Audio Remote Control	X	X	X
Attitude Information		X	X
Two-way Flight Plan Transfer		X	X
GTX 345, GDL 88 Compatible	X	X	X
GSR 56 Compatible		X	X
GTN Series Compatible		X	X
GNS 430W/530W Compatible		X	
Database Concierge			X
Voice and Text Control			X





## SAVE WORKLOAD IN THE HANGAR, TOO

With Database Concierge, keeping your avionics up to date has never been easier – or faster – than when you streamline the update process for your navigation data, charts and more to your GTN™ navigator via Connex and the Flight Stream 510 wireless gateway. At home, you can select individual databases (including Jeppesen NavData or Garmin Navigation Database, Obstacle, Terrain, SafeTaxi®, FliteCharts®, Jeppesen-format ChartView™, Basemap and the AOPA Airport Directory) on the Garmin Pilot™ app, download them and store them to your mobile device for later. When Flight Stream establishes a connection in the airplane, it transfers your up-to-date databases directly to the GTN in minutes, where they'll wait in standby until their effective date. If you have a second GTN or a G500/G600 glass flight display, you'll enjoy additional benefits from database synchronization. The GTN acts like a computer server to automatically transfer and synchronize your databases to the flight display and navigator, behind the scenes. In the meantime, you can view and use a departure, approach and arrival chart immediately – even if the databases are still synchronizing.



## GET DATABASES FROM YOUR TRUSTED PROVIDER AT A COST-EFFECTIVE PRICE

Over time, as information changes, your databases will require updating. Fortunately, we make the process easy with wireless updates via the Garmin Pilot app, flyGarmin.com and the Flight Stream 510. To make updating even more affordable, we've created OnePak™: This bundled pricing option is available for GTN™ 650/750 series navigators, G3X™ flight displays, GNS 430W/530W navigators, G500/G600 equipped cockpits and more, as well as one Garmin aera® 660/796/795 portable and access to Garmin Pilot IFR premium. With OnePak, all U.S., Canada and Latin America databases within a selected package are provided for a single annual price. Each OnePak includes options for Garmin Navigation Database, Garmin's popular SafeTaxi® and FliteCharts®, IFR/VFR charts, Obstacle and Terrain databases and AOPA or AC-U-KWIK Airport Directories.



## FLY WITH VOICE COMMUNICATION AND TEXT MESSAGING

For flight crews and their passengers who want to stay in touch from the far-reaching corners of the earth, Garmin offers a full range of phone and messaging options with Garmin Connex<sup>2</sup>. You can pair an Apple<sup>®</sup> mobile device running Garmin Pilot to your GTN via the Flight Stream 210 or 510, and with an optional GSR 56 datalink, access text and voice services both in-flight and on the ground over the Connex<sup>™</sup> network (subscription required). That means you can easily send text messaging and initiate voice calls through your headset using your existing contacts on a compatible mobile device using Garmin Pilot<sup>™</sup>. Efficient and cost effective, Garmin datalink technology provides the messaging and voice solutions you need to do business in today's competitive global economy.



## TRACK PLANES AND TRAVELERS ENROUTE

If you fly for a company that has people and airplanes traveling in all directions, you know how daunting it can be to manage all those complex logistics. Garmin Connex can help, with an affordable worldwide position reporting solution displayed via a website-based provider such as FlightAware.com. Enhancing mission safety and security, this system continuously monitors your aircraft's status enroute – with GPS-referenced position reports automatically relayed at predetermined intervals. Thus, "checking in with the office" becomes automatic. And by keeping your staff apprised of your flight's progress and location, the site can alert them to any unplanned variance from your travel itinerary. So they can better coordinate schedules in real time, and help you to make those timely connections that can yield higher productivity from your aircraft and key personnel.





## ADD PORTABLE LINKS AND REMOTE CONTROLS

In addition to using Garmin Connex™ as a wireless link to your avionics, you can also adapt it as a remote-control technology for various viewing and recording devices in your aircraft. For example, you can use your Connex-capable mobile device – or even your Garmin D2™ series pilot watch – to remotely start/stop recording, view elapsed time and capture still shots on a Garmin VIRB® aviation action camera (or up to 10 of them), which can be mounted to record live video footage or still photography from your aircraft. Then, using Connex, you can also stream and integrate live VIRB video with the Garmin Pilot™ app for viewing on your iPad® touchscreen. You can even transfer flight plans from Garmin Pilot to the D2 series watch for an additional layer of backup.

To further extend your mobile device's capability, you can wirelessly link via Garmin Connex to a portable GDL® 52 series ADS-B receiver. That connection not only lets you access subscription-free weather and uplinked ADS-B traffic, but it also adds reliable AHRS backup attitude reference to enable 3-D Vision with virtual terrain, horizon cues, HSI, airspeed, altitude and

vertical speed reference all integrated on the flight display<sup>4</sup>. You can also share GPS position information from your GTN™ navigator, portable datalink or GTX™ 345 all-in-one ADS-B transponder to display precise position information on your mobile devices. The GTX 345 – or a G500/G600 flight display – will also stream backup attitude information, including dynamic pitch and bank information, within Garmin Pilot and ForeFlight Mobile. You can even display ADS-B traffic and weather information – as well as the AHRS attitude information – on Garmin aera® 795/796 and aera 660 portables.

And if you have a SiriusXM® satellite radio receiver (such as our GDL 51 or GDL 52) in your aircraft, or even just a mobile device with a Bluetooth® connection, your passengers can use Garmin Connex to turn their compatible tablets, phones or devices into wireless remotes for controlling your system's audio channels and volume settings from virtually anywhere in the cabin – so you stay less distracted in flight.

Watch for more links and capabilities to emerge as new products are added to the Connex-capable ecosystem.



Using the Garmin Pilot™ app on your mobile device, you can link and view text messages, calendar notifications and other alerts on your D2 series pilot watch.



Wireless connectivity lets you stream live video from the VIRB series action cameras onto your Garmin Pilot enabled device or G3X™ cockpit display.



In addition to ADS-B weather and traffic, you can view 3-D synthetic vision and backup AHRS attitude reference provided by the GDL 51/52 series portable ADS-B receivers.







## WATCH THE WEATHER, WHEREVER



Datalink weather has quickly changed the way pilots fly in North America. And now via Garmin Connex, those operating throughout the rest of the world can enjoy the safety-enhancing benefits of on-demand satellite weather data in the cockpit. Featured weather products include Terminal Aerodrome Forecasts, or TAFs, that show predicted weather effects at specific airfields or observation stations for up to 30 hours in advance – and METARs, or Meteorological Aviation Reports, that give current observed data for temperature, dew point, wind speed and direction, precipitation, cloud cover and heights, visibility and barometric pressure for the location specified. A METAR report may also contain information on precipitation amounts, lightning or other data of interest such as runway visual range (RVR) conditions. Pilot reports, or PIREPs, allow pilots to share routine or urgent weather observations with each other. These METARs, TAFs, Winds Aloft and PIREP reports can now be accessed from virtually anywhere pilots fly: Europe, North America, Central and South America, Australia, Africa, the Middle East, Asia and so on. All areas of the United States – including Alaska and Hawaii – are covered as well, making it possible to receive datalink weather and other services in areas where they've not previously been available via domestic satellite networks.

In addition, most of Europe, Canada, Australia and the U.S. are also provided with coverage for high-resolution graphical radar imagery, which can be viewed in full color on Garmin's compatible flight displays. Additional features and coverage areas are being added continuously<sup>3</sup>, so you'll want to check our website ([Garmin.com/Connex](http://Garmin.com/Connex)) for the latest status updates.

To help control airtime costs, weather data from your onboard satellite datalink may be updated on an on-request basis. Or the display can be set up to refresh at preset time intervals. Various package options allow you to access weather for the specific region or regions you're interested in – so you only pay for the weather and usage parameters you want. A network subscription through Garmin Connex is required. Bundle packages are available for worldwide weather that include voice calling and text messaging from anywhere. Rate plans are tailored to the number of hours you typically fly your aircraft per year – choose 150- or 400-hour packages.

## GARMIN CONNEXT<sup>®</sup> FEATURES AT A GLANCE

- Affordable worldwide access to datalink weather for aviation
- Services include graphical radar imagery, METARs, TAFs and more
- Weather data and images are displayed on GTN<sup>™</sup>, G500/G600 and select Garmin G1000<sup>®</sup> series MFDs
- Improves flight planning with weather updates on a worldwide scale
- Database Concierge allows wireless downloads of navigation databases via Garmin Pilot<sup>™</sup>, as well as wireless uploads to GTN series navigators using a Flight Stream 510
- Available two-way text messaging keeps you in touch from anywhere
- Send or receive text messages from air or ground
- Worldwide sat-phone service lets you make or receive calls while in-flight
- GPS-referenced position reporting capability
- Powerful onboard datalink transceiver provides satellite connectivity
- Global weather and communication tools enhance safety of flight
- Works with select Apple iPad<sup>®</sup> or other compatible iOS<sup>®</sup> or Android<sup>™</sup>-based mobile devices and select Garmin portables for connectivity in the cockpit
- Provides easy uploading of flight plan data to avionics, using an iPad<sup>®</sup> or other compatible mobile device
- Lets you stream graphical weather, traffic, GPS and attitude from your avionics, for display with your tablet's Garmin Pilot<sup>™</sup> app

<sup>1</sup> Note: Capabilities such as position, attitude, weather and traffic are limited to the hardware installed in the aircraft. Available hardware and features continue to grow. Reference the Flight Stream 110/210 page on [Garmin.com](http://Garmin.com) for the latest capabilities using tablets, apps and portables.

<sup>2</sup> Coverage subject to network agreements with mobile service providers. A Garmin Connex service plan is required. All services and capabilities listed may not be available on all Garmin flight deck platforms. Visit [Garmin.com/Connex](http://Garmin.com/Connex) for details.

<sup>3</sup> Service levels, areas and rates are subject to change. Check [Garmin.com/Connex](http://Garmin.com/Connex) for the current service areas and rates.

<sup>4</sup> In addition to AHRS attitude, the GDL 52 series also provides built-in GPS positioning reference.

<sup>5</sup> Available on select systems. Visit [Garmin.com/Connex](http://Garmin.com/Connex) or see dealer for the latest updates on aircraft installations and compatibility.

## MAKE THE CONNECTION

Adding global connectivity to your Garmin-equipped aircraft can open a whole new world of capability for you and your aircraft<sup>5</sup>.

And the fact that Garmin provides a single-source for your Connected Cockpit technology makes it far simpler and more fully integrated than other "pieced together" vendor solutions.

A Garmin Connex service account and your choice of voice/ data/ weather plans can be easily set up by calling 1.913.440.1135 worldwide, or 1.866.739.5687 in the U.S.

To find out more, contact your Garmin Authorized Dealer. Or visit our website at [Garmin.com/Connex](http://Garmin.com/Connex).

