



Apogee Duet

QuickStart Guide

V1, April, 2013



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Overview

Introduction

Thank you for purchasing Duet. This QuickStart guide describes how to set up Duet with your Mac and iPad, connect speakers or headphones to play back music and connect mics and instruments to record your own creations.

Duet

The Industry Standard for Personal Recording

Apogee Duet is an award-winning audio interface, headphone amp and MIDI interface making it easy to create professional recordings anywhere on your iPod touch, iPhone, iPad or Mac. With Apogee's legendary digital audio conversion and world-class mic preamps, Duet is the best way to capture your music with incredible dimension and detail.

Package contents

The following items are included in the Duet box:

- Duet
- Breakout cable with:
 - 2 combination line/mic/instrument inputs
 - 2 balanced line outputs
- 2 meter USB cable
- 30-pin iOS cable
- Universal power supply with NA, EU, UK, AU, JP
- QuickStart Guide

Software, firmware and the Duet User's Guide are available online only. Please register your product and download the latest installer here:

<http://www.apogeedigital.com/downloads>



QuickStart Guide



Breakout Cable



30-pin
iOS Cable



Universal Power Adapter
for US, EU and UK



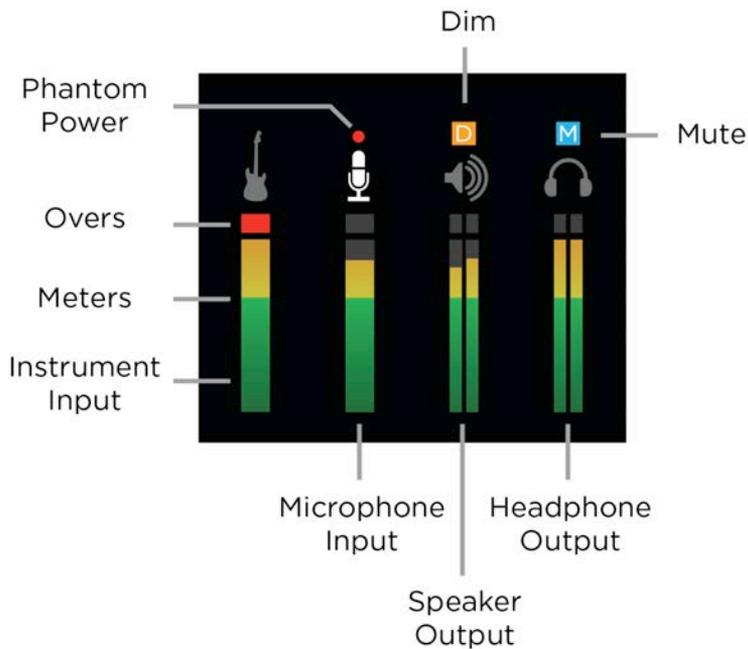
2 Meter USB Cable

Duet panel tour

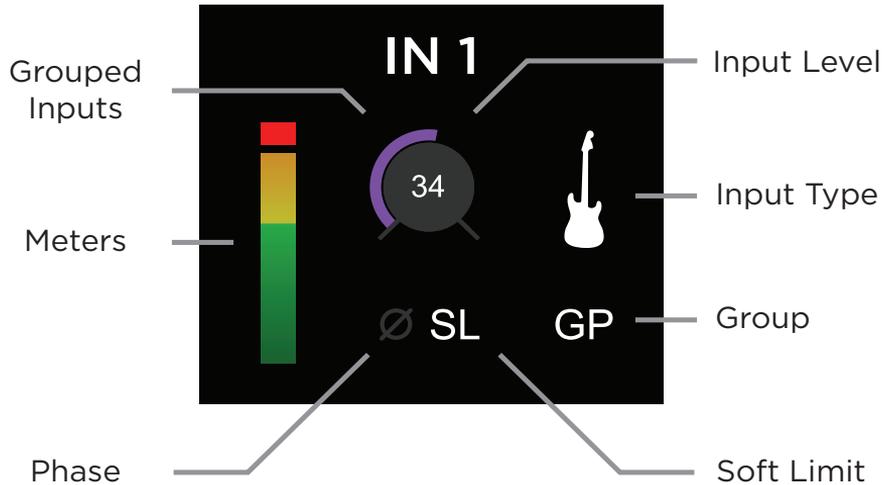


OLED Screen Tour

Home View



Detail View (Input)



Detail View (Output)



Connecting to your Mac

System Requirements

- Computer: Intel Mac 1.5GHz or faster
- Memory: 2 GB RAM minimum, 4 GB recommended
- OS: 10.6.8, 10.7.5 or greater
- Connection and power: Any available USB port on a Mac
- USB bus powered; DC power optional (DC power supply included)

Install Duet Software

1. Connect Duet's USB port to a USB port on your Mac using the supplied USB 2 cable.
2. Go to <http://www.apogeedigital.com/downloads.php>
3. Download the latest Duet software installer.
4. Once you have downloaded the package, double-click the Apogee icon to run the firmware updater.
5. After the firmware update has completed, double-click the open-box icon to run the software installer
6. You will be required to restart your computer after the install is complete.

Choosing Duet for Mac Sound I/O

After connecting Duet, installing the software and restarting your Mac, a dialog box will prompt you to choose Duet for Mac sound input and output. Click **Yes**.



Connect to Headphones or Speakers

Connect headphones to the headphone output on the front of the unit.

Connect the provided breakout cable to I/O Breakout Port on the rear of the unit. Then connect Duet's 1/4" speaker outputs 1-2 to the inputs of your active (powered) studio monitors or amplifier.

Configuring the Input

Connect a microphone or instrument to the breakout cable's combo jack.

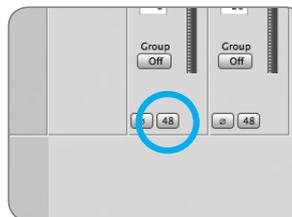


Connecting to your Mac - Apogee Duet Quick Start Guide

Open Apogee Maestro software (found in your Mac's Applications folder), and select the Input tab.



Select the Analog Level setting that corresponds to the device you have connected to Duet's input(s). For example, if you have a microphone connected to the XLR input of channel 1, select "Mic" from the Analog Level menu on channel 1. If you have a 1/4" instrument connected to the input, then select "Inst"



48V Phantom power button in Maestro



48V Phantom power indicator on OLED Display

Note: If you are using a condenser microphone that requires phantom power, select the 48V box on the Input tab of the appropriate channel in Maestro. Phantom power is indicated on Duet's display by a red dot above the microphone icon.

Connecting to your iPad

System Requirements

- iPhone 4, iPhone 4S, iPad, iPad 2, iPad (3rd gen.)
 - Connection: 30-pin dock connector
- iPod Touch (5th gen.), iPhone 5, iPad (4th gen.), iPad Mini
 - Connection: Apple's Lightning to 30-pin adapter (sold separately)
- iOS version: 5.1.1 or greater
- DC power required: DC power supply included

Install Maestro from App Store

1. Connect the provided external power supply to Duet. When connecting to iPad/iPhone, the external power supply is required.
2. Connect Duet to your iPad/iPhone using the provided 30-pin iOS cable.

3. On the iPad/iPhone, open Settings and choose General > About > Duet, then choose "Find App for Accessory".



The App Store will open and navigate automatically to the Apogee Maestro app.



5. Once you've signed in to the App Store, download Apogee Maestro.

Note: it's possible to record through the mic inputs and play back audio without installing Maestro

Connect to Headphones or Speakers

Connect headphones to the headphone output on the front of the unit.

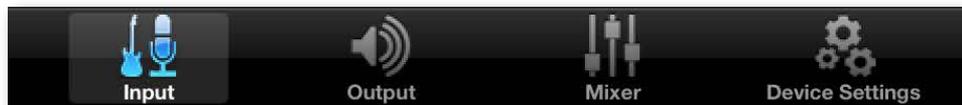
Connect the provided breakout cable to I/O Breakout Port on the rear of the unit. Then connect Duet's 1/4" speaker outputs 1-2 to the inputs of your active (powered) studio monitors or amplifier.

Configuring the Input

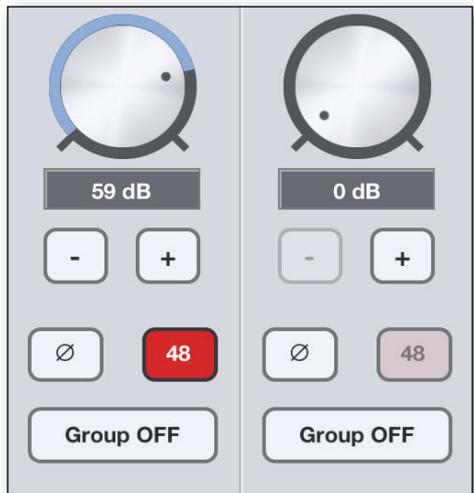
Connect a microphone or instrument to the breakout cable's combo jack.



Open Apogee Maestro app, choose Duet from the main menu and select the Input tab.



Select the Analog Level setting that corresponds to the device you have connected to Duet's input(s). For example, if you have a microphone connected to the XLR input of channel 1, select "Mic" from the Analog Level menu on channel 1. If you have a 1/4" instrument connected to the input, then select "Inst"



48V Phantom power indicator on OLED Display

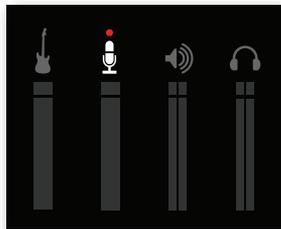
Note: If you are using a condenser microphone that requires phantom power, select the 48V box on the Input tab of the appropriate channel in Maestro. Phantom power is indicated on Duet's display by a red dot above the microphone icon.

Adjusting Input & Output Levels

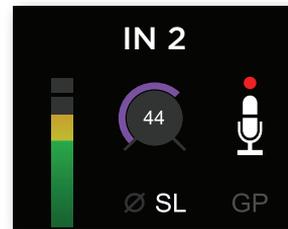
Input level

To change Duet's input level (i.e the preamp gain of microphones and instruments):

1) Push the Multi-function Controller Knob until the microphone or instrument icon is lit on the Duet's display



2) Turn the Controller Knob until the desired recording level is obtained.



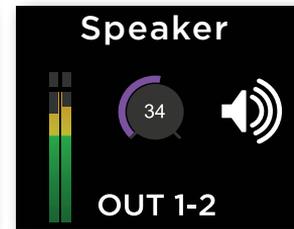
The controller knob operates in parallel with Maestro's input controls.

Speaker Output level

To change Duet's speaker output level (i.e the listening level of connected speakers):

1) Push the Multi-function Controller Knob until the speaker icon is lit on the Duet's display

2) Turn the controller knob to the desired listening level.

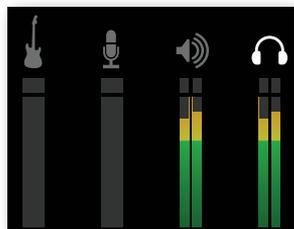


The controller knob operates in parallel with any software output controls.

Headphone Output level

To change Duet's headphone output level (i.e the listening level of connected headphones):

1) Push the Multi-function Controller Knob until the headphone icon is lit on the Duet's display



2) Turn the controller knob to the desired listening level.



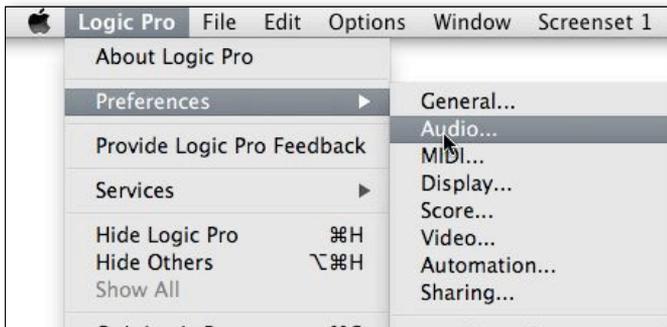
The controller knob operates in parallel with Maestro's headphone control.

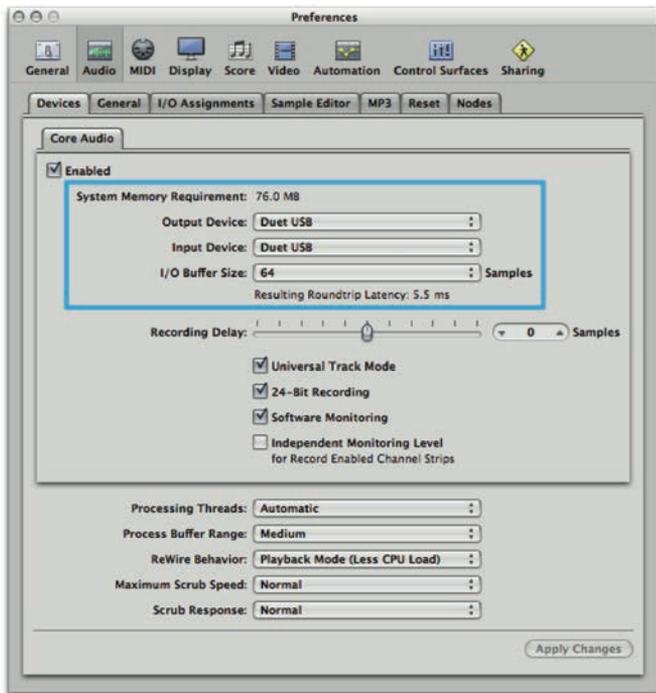
Software Setup

Mac OS: Using Duet with Logic

1) Go to the Logic Pro or Logic Express menu and choose **Preferences > Audio**.

2) In the Core Audio pane of the Device tab, select Duet for Output Device and Input Device.

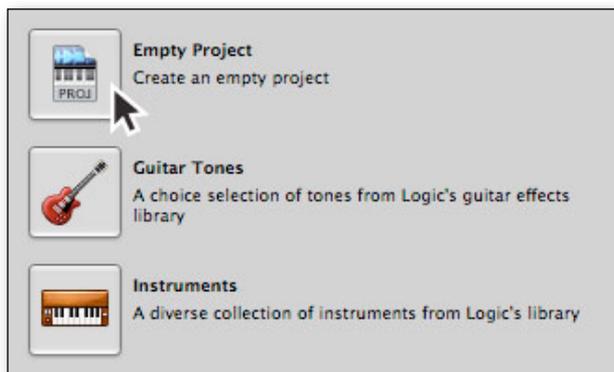




3) Set the I/O Buffer Size to 64. Click Apply Changes at the bottom of the Preferences window.

Mac OS: Using Duet with Logic (continued)

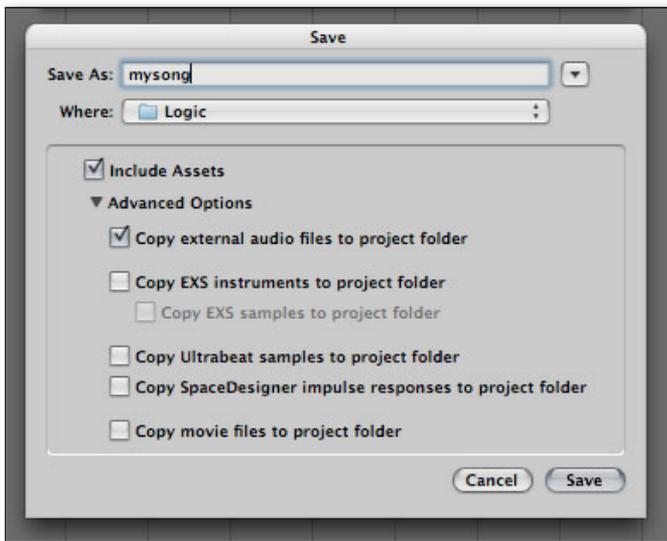
4) Now close the Logic Pro Preferences window and select **New > Empty Project >** from the File Menu.



5) If you are recording a single microphone or instrument, make the following selections in the New Tracks dialog box:



6) Logic will now ask you to name the project and save in on your hard drive.

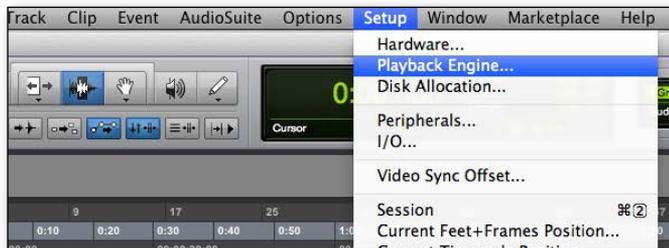


7) Click the Record button in the transport control at the bottom of the Logic window.

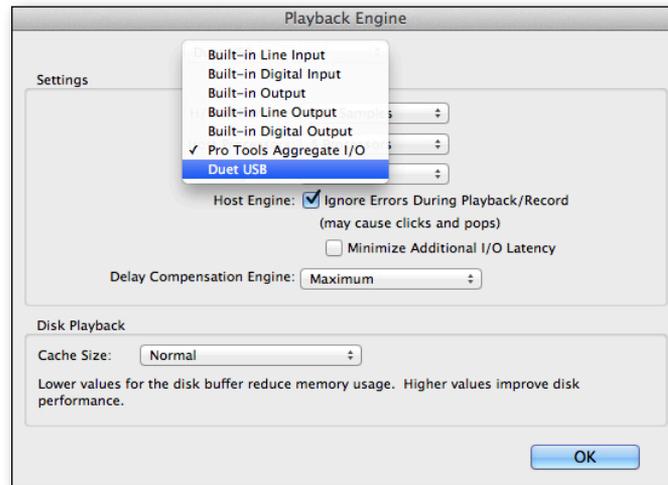


Mac OS: Using Duet with Avid Pro Tools (9 or greater)

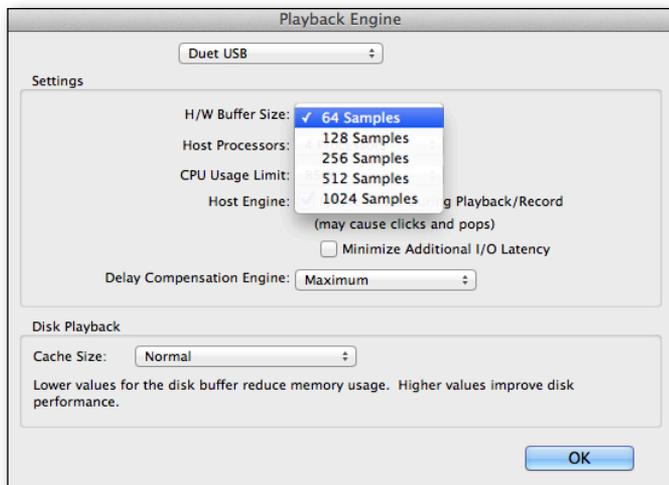
1) Choose **Setup** menu > **Playback Engine**.



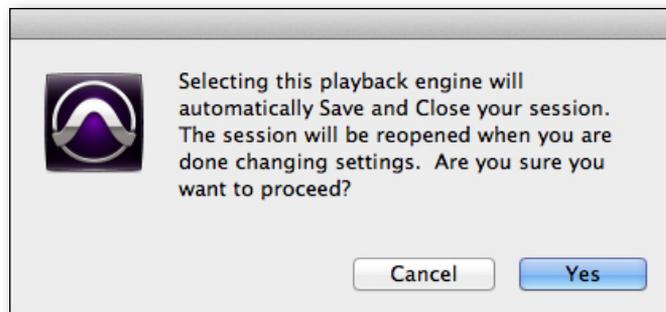
2) Choose **Duet** for **Current Engine**.



3) Set the Buffer Size to **64**. Click **OK**.



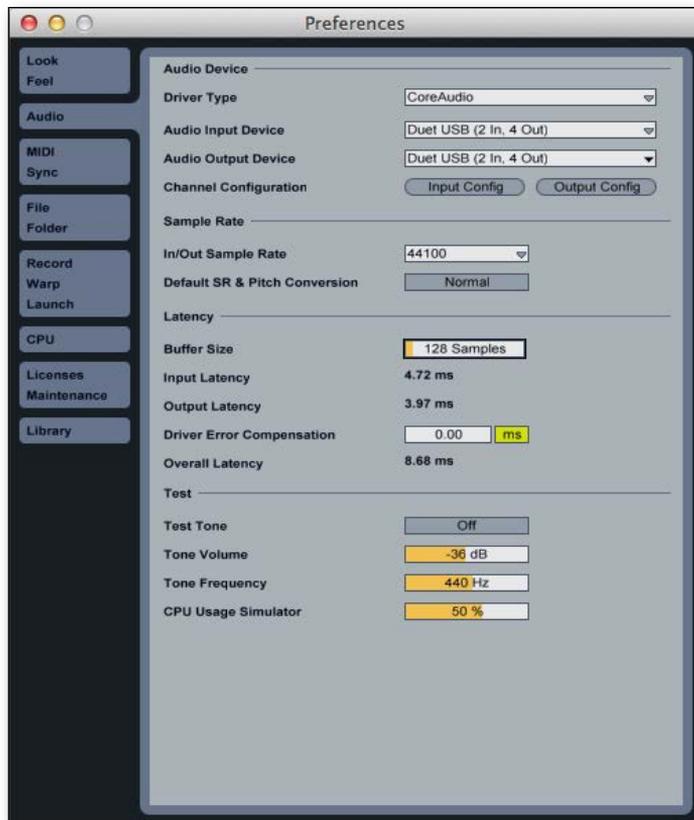
4) The following dialog box will appear. **Click Yes**.



Mac OS: Using Duet with Ableton Live

- 1) **Choose Live > Preferences.** Click on the Audio tab.
- 2) Select CoreAudio in the Driver Type menu.
- 3) Select Duet in both the Audio Input Device and Audio Output Device menus.
- 4) Set Buffer Size to 128
- 5) Close the Preferences window after making settings.

Software Setup - Apogee Duet Quick Start Guide



Using Duet with iOS Apps

Duet works with any iOS Core Audio compatible app on iPod Touch, iPhone or iPad. Simply download your favorite app, connect Duet and you're ready to go!

Recommended apps:

GarageBand - <https://itunes.apple.com/us/app/garageband/id408709785?mt=8>

Auria - <https://itunes.apple.com/us/app/auria/id524122834?mt=8>

Cubasis - <https://itunes.apple.com/us/app/cubasis/id583976519?mt=8>



Visit www.apogeedigital.com/knowledgebase
for the most up to date list of compatible apps

Additional Support

For more information:

- Complete Apogee Duet User's Guide
- Apogee KnowledgeBase and FAQs
- Apogee Product Registration
- How to contact Apogee Technical Support

Visit: <http://www.apogeedigital.com/support/>

Warranty & Notifications

Registration and Warranty Information

To receive **free tech support, important information** and **product updates first...**

Register your new Apogee product here:

www.apogeedigital.com/register/

If you do so, Apogee can contact you with any update information. As enhancements and upgrades are developed, you will be contacted at the registration address. Firmware updates are free for the first year of ownership unless otherwise stated.

APOGEE ELECTRONICS CORPORATION warrants this product to be free of defects in material and manufacture under normal use for a period of 12 months. The term of this warranty begins on the date of sale to the purchaser (proof of purchase in the form of a receipt may be required). Units returned for warranty repair to Apogee or an authorized Apogee warranty repair facility will be repaired or replaced at the manufacturer's option, free of charge.

ALL UNITS RETURNED TO APOGEE OR AN AUTHORIZED APOGEE REPAIR FACILITY MUST BE PREPAID, INSURED AND PROPERLY PACKAGED, PREFERABLY IN THEIR ORIGINAL BOX.

Apogee reserves the right to change or improve design at any time without prior notification. Design changes are not implemented retroactively, and the incorporation of design changes into future units does not imply the availability of an upgrade to existing units. This warranty is void if Apogee determines, in its sole business judgment, the defect to be the result of abuse, neglect, alteration or attempted repair by unauthorized personnel. The warranties set forth above are in lieu of all other warranties, expressed or implied, and Apogee specifically disclaims any and all implied warranty of merchantability or of fitness for a particular purpose. The buyer acknowledges and agrees that in no event shall the company be held liable for any special, indirect, incidental or consequential damages, or for injury, loss or damage sustained by any person or property, that may result from this product failing to operate correctly at any time.

Warranty Exclusions

- Used products purchased through a third party or online.
- Products with missing or defaced serial numbers.
- Products damaged by environmental factors, such as oxidation and/or damages caused by natural disaster.
- Units that have **NOT** been opened by user within the one year warranty period.
- Physical Damages which include, but not limited to the following:
- Unauthorized modifications
 - Misuse, neglect or improper assembly
 - Transport damages due to improper packaging or carrier
 - Burns resulting from faulty or failed electric power

- Missing/bent parts
- Cracked components
- Liquid/water damage

USA: Some states do not allow for the exclusion or limitation of implied warranties or liability for incidental or consequential damage, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Service Information

Your Apogee product contains no user-serviceable components; refer to qualified service personnel for repair or upgrade. Your warranty will be voided if you tamper with the internal components. If you have any questions with regard to the above, please contact Apogee.

In the event your Apogee product needs to be upgraded or repaired, it is necessary to contact Apogee prior to shipping, and a Return Merchandise Authorization (RMA) number will be assigned.

Warnings

FCC warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio

communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to take whatever measures necessary to correct the interference at his own expense.

Copyright Notice

Duet is a computer-based device, and as such contains and uses software in ROMs. This software, and all related documentation, including this User's Guide contain proprietary information which is protected by copyright laws. All rights are reserved. No part of the software and its related documentation may be copied, transferred, or modified. You may not modify, adapt, translate, lease, distribute, resell for profit or create derivative works based on the software and its related documentation or any part thereof without prior written consent from Apogee Electronics Corporation, U.S.A.

Software Notice

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FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Declarations of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Re-orient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a different circuit from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTE: The use of non-shielded cable with this equipment is prohibited.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Apogee Electronics Corp.

1715 Berkeley Street

Santa Monica, CA 90404, USA

Industry Canada Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Declaration of Conformity – CE

Apogee Electronics Corporation hereby declares that the product, the Duet, to which this declaration relates, is in material conformity with the following standards or other normative documents:

- EN50081-1/EN55022; 1995
- EN50082-1/IEC 801-2, 3, 4; 1992

following the provisions of:

- 73/23/EEC – Low Voltage Directive
- 89/336/EEC – EMC Directive

Declaration of Conformity – Japan

Apogee Electronics Corporation hereby declares that Duet, to which this declaration relates, is in material conformity with the VCCI Class A standard.

Declaration of Conformity – Australia

Apogee Electronics Corporation hereby declares that the Duet is in material conformity with AN/NZS standard requirements.



APOGEE



Designed in California. Made in U.S.A.

Apogee Electronics Corp. Santa Monica, CA

www.apogeedigital.com

Part #: 7010-0063-0160

Revision 4.0