



BEATRICE P1 & P2

Phone handset Dante network intercom

PRODUCT DETAILS



THE DESIGN BUILDINGS, 6 BROOKS PLACE, MAIDSTONE, KENT, ME14 1HE. UK. TEL: +44 (0) 1622 753662 Visit our Website at www.glensound.com



Glensound Electronics Ltd

Thank you for choosing a new Glensound product.

All rights reserved.

Information contained in this manual is subject to change without notice, if in doubt please contact us for the latest product information.

If you need any help with the product then we can be contacted at:

Glensound Electronics Ltd The Design Buildings 1 – 6 Brooks Place Maidstone Kent ME14 1HE United Kingdom

Telephone: +44 (0) 1622 753662

EMAIL ADDRESSES

General enquires: sales@glensound.com

Technical enquires: techinfo@glensound.com

Sales enquires: sales@glensound.com

PRODUCT WARRANTY

All equipment is fully tested before dispatch and carefully designed to provide you with trouble free use for many years.

We have a policy of supporting products for as long as possible and guarantee to be able to support your product for a minimum of 10 years.

For a period of one year after the goods have been despatched the Company will guarantee the goods against any defect developing after proper use providing such defects arise solely from faulty materials or workmanship and that the Customer shall return the goods to the Company's works or their local dealer.

All non-wear parts are guaranteed for 2 years after despatch and any defect developing after proper use from faulty materials or workmanship will be repaired under this warranty providing the Customer returns the goods to the Company's works or their local dealer.

CE

EU DECLARATION OF CONFORMITY

GS-BEATRICE P1 & P2

Phone handset Dante intercom

This declaration of conformity is issued under the sole responsibility of the manufacturer.

This equipment is manufactured by Glensound Electronics Ltd of Brooks Place Maidstone Kent ME14 1HE is $\mathbf{C} \mathbf{\epsilon}$ marked and conforms to the following Union harmonisation legislation:

Emissions: Immunity: BS EN55032:2015 BS EN55035:2017

Signed for and on behalf of Glensound Electronics Ltd.

Gavin Davis, Managing Director Maidstone, Kent, England Date: 03/09/2019

RoHS DIRECTIVE

RoHS 2 Directive 2011/65/EU restricts the use of the hazardous substances listed below in electrical and electronic equipment.

This product conforms to the above directive and for these purposes, the maximum concentration values of the restricted substances by weight in homogenous materials are:

Lead	0.1%
Mercury	0.1%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls	0.1%
Polybrominated Diphenyl Ethers	0.1%
Cadmium	0.01%

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT REGULATIONS 2006 (WEEE)

Glensound Electronics Ltd is registered for business to business sales of WEEE in the UK our registration number is:

WEE/JJ0074UR

GLENSOUND BEATRICE P1 & P2 HANDBOOK CONTENTS

Description

Issue 1

Page No.

Contents

PRODUCT WARRANTY	3
EU DECLARATION OF CONFORMITY	4
RoHS DIRECTIVE	5
WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT REGULATIONS 2006 (WEEE)	6
HANDBOOK CONTENTS	7
OVERVIEW	8
P1 & P2 REAR PANEL LAYOUT	9
P1 FRONT PANEL LAYOUT	10
CONFIG MODE	11
RESET TO FACTORY DEFAULT SETTINGS	12
CALLING OTHER BEATRICE DEVICES	12
AUDIO BLOCK DIAGRAM (analogue representation of digital circuits)	13
Audio Circuits TO and FROM Dante/ AES67	13
CONNECTING THE BEATRICE UNITS TO A DANTE NETWORK	14
Getting Dante Controller	14
Connecting Beatrice device to the network	14
Audio Over IP Network	14
Running Dante Controller	15
Dante Controller TIP	15
Device not showing up in Dante Controller	16
AES67 MODE	17
Turning On AES67 Mode	17
Sending AES67 Audio	18
Receiving AES67 Audio	19
AES67 Restrictions	19
UPDATING FIRMWARE	20
Equipment needed	20
Instructions	20
UPDATING THE ULTIMO CHIPSET	25
Finding Out Current Installed Version	25
Finding Out What The Latest Available Version Is	25
Updating the device	25
WIRING INFORMATION	26
Headset Wiring	26

OVERVIEW

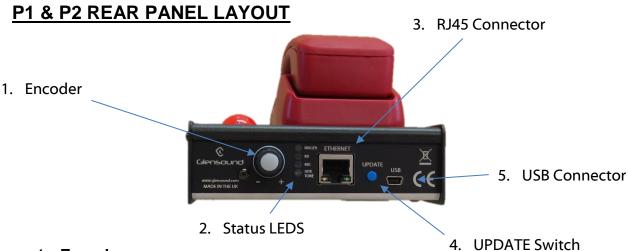
The BEATRICE range of IP intercoms was designed for broadcast, theatre and professional audio applications.

Our Beatrice intercom system utilises the reliable and proven $Dante^{TM}$ network audio transmission protocol to allow real time distribution of uncompressed audio across standard networks. As such the BEATRICE P1 & P2 units are also fully compatible with other manufacturers' equipment using the DanteTM protocol. The Beatrice P1 & P2 are also both AES67 compliant.

All units in the system are designed to be very easy to use for the operator and simple to setup for the technician. They includes all the basic functionality required for small intercom systems and none of the overly complex installation requirements normally associated with large systems.

The name Beatrice was chosen for our intercom range as she was the love of Dante Alighieri:

'Dante had fallen in love with another, Beatrice Portinari (known as Bice), whom he first met when he was only nine.' Source Wikipedia.



1. Encoder

This encoder is used to control parameters for the config settings of the device.

2. Status LEDs

These LEDs indicate which setting the encoder is adjusting whilst changing config levels.

3. RJ45 Connector

This is a 100M/bit standard IP network connection. The amber status LED flashes to show when data is being correctly communicated with the attached switch. The green LED illuminate to show PoE power is received. The PoE source can be a mid-span source or a network switch with PoE.

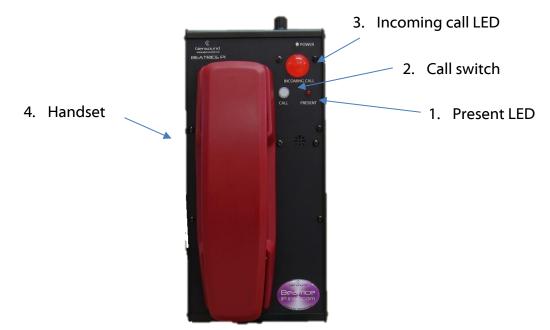
4. Update switch

Holding down this switch for 11 seconds will reset the device to factory default settings.

5. USB connector

Allows the local device firmware to be updated.

P1 FRONT PANEL LAYOUT



1. Handset

The handset connects to the device via the 4P4C RJ connector on the front of the device. Please refer to the end of the manual for wiring information.

When the handset is picked up the microphone audio is sent to the Dante network and muted when placed back. Picking the handset up will stop the device ringing when receiving a call. On the P2 you can receive calls from both channels when talking to a channel.

2. Incoming call LED

The Call LED indicates the presence of an incoming audio from the Dante network by flashing when the audio goes above a threshold of -30dBFS. The Call LED will flash for a few seconds upon receiving a call.

3. Call switch

This switch is used to send a call to the network output. Double press to send the call. An audible beep will sound from the sounder when a call is sent.

On the P2, these switches can be toggled to choose which or both Dante channels you wish to speak to. The switch will illuminate to show that you are talking to that channel.

4. Present LED

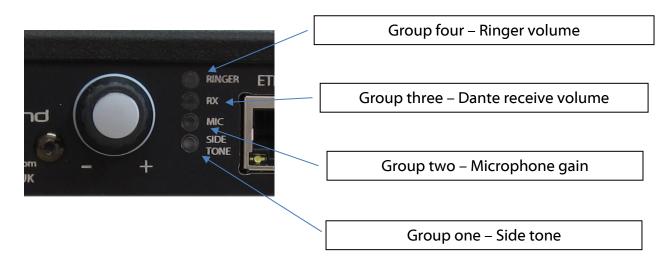
This LED will illuminate to show audio presence from the Dante network.

CONFIG MODE

The Beatrice P1 and P2 have a configuration mode that allows the user to adjust certain settings and parameters of the device.

To enter config mode, press the encoder switch for 3 seconds.

Config mode is linear, where settings are changed in groups that are cycled through.



Once config mode is entered, the LEDs will illuminate to indicate which group of the config mode the device is currently in. To cycle through to the next group, simply press the encoder switch.

1. Side tone

In this first config mode, turning the encoder will adjust the sidetone; the level of your own voice that is sent into your earpiece.

2. Microphone gain

In the second config mode, turning the encoder will adjust your handset microphone gain level.

3. Dante receive volume

In the third config mode, turning the encoder will adjust the volume level of the incoming Dante audio. On the Beatrice P2, select which channel you want to adjust by selecting the channel with the talk switches.

4. Ringer volume

Turning the encoder adjusts ringer volume. The ringer has 10 steps of level adjustment. When the level is turned fully off to 0, all calling functionality is disabled.

To leave config mode, simply push the encoder switch again to return to normal usage.

The device will exit config mode automatically after a few minutes.

RESET TO FACTORY DEFAULT SETTINGS

To reset the device to a base default configuration simply hold down the update button continuously for 11 seconds. The device will beep on success.

The default settings are as follows:

Mic gain level	28 / 31
Sidetone level	11 / 31
Dante receive level	27 / 31
Call ring level	10 /10
Calling	enabled

CALLING OTHER BEATRICE DEVICES

The Beatrice uses a standardised calling method that allows it to send and receive calls to and from other Beatrice devices. A 20kHz tone is sent to alert the recipient of an incoming call.

When the Beatrice P1 or P2 receives a call, the channel specific call led will flash and the device will ring for a few seconds.

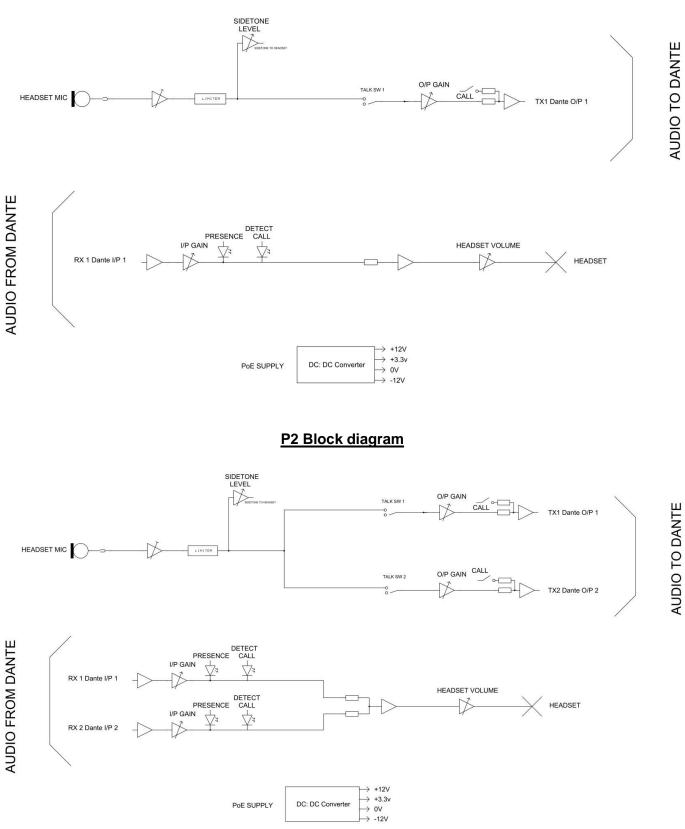
To send a call to another device, quickly double press the call switch for the channel you want to call. An audible beep will sound when a call is successfully sent. There is a 5 second cooldown after sending a call before another call can be sent.

Note: If you have muted the calling volume in config mode then all call functionality is disabled. This does not mean that you cannot send and receive normal audio, it means that the device will not send a 20kHz tone or react to receiving a 20kHz tone.

AUDIO BLOCK DIAGRAM (analogue representation of digital circuits)

Audio Circuits TO and FROM Dante/ AES67

P1 Block diagram



CONNECTING THE BEATRICE UNITS TO A DANTE NETWORK

The Beatrices are network audio devices utilizing the reliable and versatile Dante audio over IP protocol. Dante is a proprietary system (although very widely used) the originators of which are Audinate.

The information below is only meant as a very basic guide. Full details of the power of Dante network audio and instructions for using it can be found at www.audinate.com

Getting Dante Controller

If you are connecting the Beatrice to a new Dante network the first thing you will need to do is to get the free Dante controller software from Audinate. This can be downloaded by visiting Audinate's web site at <u>www.audinate.com</u>

Connecting Beatrice device to the network

The Beatrice can be connected to the network that you are going to use for your audio distribution simply by plugging in to the RJ45 network connections on the rear. Once connected to the network it will be possible to see the Beatrice from within the Dante controller and route its' audio circuits.

Audio Over IP Network

We strongly recommend that you consider your network topology carefully and would not recommend sharing broadcast audio and general data on the same network.

For more details of audio over IP network structure please visit www.audinate.com

Running Dante Controller

At the time of writing this manual the Dante Controller looks as per the screenshot below:

Dante		TEST -	02- e9cc
Filter Transmitters	ers	ALEXTES 01	02- BEA-P1-91e9cc 01
Filter Receivers	Dante Transmitters		BE
	+ Dante		
± - Dante Receivers			
ALEXTEST 01 02		Ξ	
BEA-P1-91e9cc 01		Ξ	Ξ

The Beatrice P1 and Beatrice P2 will have been named at the factory during test to allow them to be identified by the Dante controller.

The format used for the factory name is:

'BeatriceP1-snXXX'

Where 'BeatriceP1' refers to the Glensound product i.e. BeatriceP1.

The '-snXXX' refers to the serial number of the BeatriceD8 which can be found printed on the rear or side of the unit.

The unit may be renamed in Dante controller by opening the 'Device view' window and selecting BeatriceP1 in the drop-down menu. Go to the 'Device Config' tab and change the name with the Rename Device box.

Note if you upload a new DNT file or clear the devices config then the name will change to BeatriceP1-xxXxXx whereby the 'X's refer to the devices MAC address.

Dante Controller TIP

If you have never run Dante controller before then make sure that on the bottom left of the Dante controllers' screen 'P' or 'S' is next to a green square as this indicates that it is connected to a network. By clicking 'P' or 'S' a pop up box opens to allow you to set what network interface the controller is using.

Device not showing up in Dante Controller

If your DanteTM device does not show up in DanteTM Controller then the most likely issue is that the device's IP Address is not appropriate for your network.

- A) It maybe that the device is set to obtain an IP address automatically using DHCP (this is the default configuration) and your network is setup for fixed IP addresses only and does not have a DHCP server.
- B) It maybe that the device has had a fixed IP address assigned but that this address is not suitable for your network.

The solution to both scenarios is basically the same.

- 1) You must connect your Dante[™] device directly to the Ethernet port of your computer using an Ethernet cable.
- 2) Make sure that your computer is set to 'Obtain an IP address automatically'
- 3) After a few minutes the Dante[™] device should now appear in Dante[™] Controller.
- 4) Double click the device name to open up device view.
- 5) Open up the 'Network Config' tab
- 6) Either turn on 'Obtain an IP Address Automatically' or correctly configure the 'Manually configure an IP Address' options for your network.
- 7) Click on 'Apply' to confirm the new settings, then disconnect the computer and reconnect the Dante[™] device to your network.

🗲 🔣 🔤 🚭 🕀 🔓	GS-DARK1616-AES67-Te	st 🗸	
Receive Transmit Status Latency (evice Config Network Config AES67 Config		
	-Dante Redundancy	-	
	Current: Switched		
	New: Switched 🗸		
	r Addresses		
	Addresses]	
	Obtain an IP Address Automatically (default)		
	O Manually configure an IP Address		
	IP Address:		
	Netmask:		
	DNS Server:		
	Gateway:		
	Apply Revert		
	rReset Device		
	Reboot Clear Config		
		1	

AES67 MODE

The Beatrice uses a chipset from Audinate called the Ultimo for its network audio interface. Audinate are the company behind DanteTM and as such the primary network audio protocol is Dante, however Audinate have enabled their chip to comply with AES67 and therefore the Beatrice can be set to AES67 mode for interaction with other AES67 devices.

Please note however that Glensound are relying on Audinate's AES67 interface and are unfortunately not able to provide full AES67 support for the unit. AES67 support should be sought directly from Audinate.

Turning On AES67 Mode

If you want to use your Beatrice on an AES67 network and it has not been set to AES67 mode then this can be set in Dante controller by double clicking the Beatrice to open the Device View window where you will find an AES67 tab to enable AES67 support.

2 Dante Controller - Device View (GS-DARK1616-AES67-Test-1) File Device View Help	_	×
🚱 🔣 🚳 🚭 🕀 🔒		0
Receive Transmit Status Latency Device Config Network Config AES67 Config		
AES67 Mode		
Current: Enabled		
New: Enabled V		
Tx Multicast Address Prefix		
Current Prefix: 239.168.00X.00X		
New Address Prefix: Set		
Reset Device		
Reboot Clear Config		

Once the AES67 drop down box has been enabled you'll have to reboot the Beatrice for the change to take effect. After the reboot go back to the AES67 tab and set the multicast prefix address to one that is suitable for your newtork.

Sending AES67 Audio

To transmit AES67 audio to the network a multicast flow must first be setup.

This is done by selecting the 'Create New Multicast Flow' Icon in the Device View.

Create Multicast Flow GS-DARK1616-AES67-Test- to 8 channels per flor Select one or more transmit channels to be	w.
AES67 Flow	
Channel Name	Add to New Flow
01	
02	\checkmark
03	
04	\checkmark
05	\checkmark
06	\checkmark
07	\checkmark
08	\checkmark
09	
10	
11	
12	
13	
14	
15	
16	
Create Cano	el

Tick the AES67 Flow check box, then select up to 8 channels to be included in the flow then click 'Create'

Once set the flows can be seen in the transmit tab of the device view.

		GS-DARK1616-AES6	7-Test-2) — 🗆	×
	·< 🕀 🔓		GS-DARK1616-AES67-Test 🗸	0
Receive Transmit	Status Latency Transmit Chan		rk Config AES67 Config Transmit Flows	
Channel 01 02	Signal	Channel Label	Unicast: 1 Multicast: 2 Total: 3 of 32 Multicast Flow 31: 09,10,11,12,13,14,15,16 (239.168.222	2. 10)
03 04 05 06	ସାଏ ସାଏ ସାଏ ସାଏ		AES67 Session Id=2011634783 Multicast Flow 32: 01,02,03,04,05,06,07,08 (239.168.238 AES67 Session Id=2015673848	.252)
07 08 09 10	ସାଏ ସାଏ ସାଏ			
11 12 13	य[4 य[4 य[4			
14 15 16	লাখ লাখ লাখ			
			Delete	

Receiving AES67 Audio

Once a compatible AES67 stream is detected on the network by Dante Controller the AES67 flows will appear in the Dante Transmitters section in the Routing tab.

AES67 Restrictions

AES67 flows can only be generated with the following constraints:

- Multicast Only
- Non-redundant
- Destination address in range 239.nnn.0.0 to 239.nnn.255.255 (239.nnn/16), port 5004
- 48kHz sampling rate
- 24 bit linear (L24) encoding
- 1 msec packet time
- Up to 8 channels per stream

Received AES67 flows have the following constraints:

- Multicast Only
- Non-redundant
- Destination address in range 239.nnn.0.0 to 239.nnn.255.255 (239.nnn/16), port 5004. Must match destination address range.
- 48kHz sampling rate
- L16 or L24 encoding
- 125usec, 250usec, 333usec, 1 msec packet time
- Up to 8 channels per stream

UPDATING FIRMWARE

Equipment needed

- A windows based PC
- USB Type A to Micro B cable
- A copy of 'DfuSe Demo' software
- The latest firmware from Glensound
- A Beatrice P1/2 and a PoE source

Instructions

1. Download and install DfuSE Demo

'DfuSE Demo' is a firmware updating tool that is required for loading new firmware on to the STM32 Device.

It can be downloaded from the STMicroelectronics website found here: <u>https://goo.gl/AbzhsA</u>. It is the file named "STSW-STM32080".

Once you have downloaded this file you will need to extract the .exe "DfuSe_Demo_V3.0.5_Setup.exe", then run and install it.

2. Download firmware

Once you have downloaded the file, place it in a folder or location of your choice.

BeatriceB1B2_v1.6.dfu

21/11/2018 10:46 DFU File

65 KB

Figure 1 Example filename

3. Connect To A PC

Connect the Beatrice P1/2 to the PC via the USB cable. The micro USB connector is located on the side panel of the Beatrice P1/2.



Figure 2 USB connector

4. Firmware update preperation

To prepare the Beatrice P1/2 for a firmware update;

- 1. Make sure the device is connected with USB
- 2. Press and hold down the UPDATE button
- 3. Power on the unit
- 4. Release the UDPATE button after a few seconds

Your PC should make an audible sound when this process is successful as windows is detecting a new USB device.

5. Loading the firmware

Now open DfuSe Demo.

If the Beatrice P1/2 successfully entered DFU mode then it will appear as 'STM Device in DFU Mode' under the 'Available DFU Devices tab'.

STM Device in DF	U Mode	~	Application Mode:	DFU Mode:
Supports Uploa Supports Dowr Can Detach Enter <u>D</u> FU mode/ Actions	nload	Manifestation tolerant Accelerated Upload (ST	Vendor ID:	Vendor ID: 0483 Procuct ID: DF11 Version: 2200
Select <u>I</u> arget(s):	Target Id 00 01 02 03	Name Internal Flash Option Bytes OTP Memory Device Feature	Available Sect 24 sectors 2 sectors 2 sectors 1 sectors	ors (Double Click for mo
Upload Action File: <u>C</u> hoose	. <u>U</u>	Upgrade or File: Vendor ID Procuct ID		n file:
Transferred data 0 KB(0 Bytes) of (Uerify a	after download e Upgrade duration (Rer	
Operation duration 00:00:00		Choose		

Figure 3 Device successfully recognised

Now the .dfu file needs to be selected so that DfuSe Demo knows the correct firmware to put on to the Beatrice P1/2.

02 OTF Menic 03 Device Fea		-		ectors ectors
:ize	<u>U</u> pload	Upgrade or Ver File: Vendor ID: Procuct ID: Version:	ify Action	Targets in file:
I KB(0 B)	vtes)	Verify after] uration (Remove some FFs
)):00:00		Ch <u>o</u> ose]	Upgrade
		5		

Figure 4 Choose .dfu file

Click choose and then select the .dfu file that you downloaded from the Glensound website. This will be located in your downloads folder by default.

If the file loads successfully then it will read along the bottom 'File correctly loaded'.

Supports Upload Manifestation tolerant Vendor ID: Vendor ID: 0483 Supports Download Accelerated Upload (ST) Procuct ID: Procuct ID: DF11 Can Detach Leave DFU mode Version: 200 Enter DFU mode/HID detach Leave DFU mode Version: 200 Actions Select Target(s): Target Id Name Available Sectors (Double Click for more) 00 Internal Flash 24 sectors 01 Option Bytes 2 sectors 02 0TP Memory 2 sectors 03 Device Feature 1 sectors Upload Action ID: Upgrade of Verify Action File: Dark1616S1.1.1.dfu Vendor ID: 000 Verify after download 000 ST Verify after download Optimize Upgrade duration (Remove some FFs) Optimize Upgrade duration (Remove some FFs)	Available DFU Dev STM Device in DF			~		lication Mode:	DFU Mo		_
Upload Action Upload Upload Action Upload Action File: Upload Upload Upload Transferred data size Upload ST 0 KB(0 Bytes) of 0 KB(0 Bytes) Version: 0000	Supports Dowr Can Detach Enter <u>D</u> FU mode/	ed Upload (ST)			Procuct I	D: DF11			
File: Dark1616S1.1.1.dfu Choose Upload Transferred data size Version: 0 KB(0 Bytes) of 0 KB(0 Bytes) Version: 0 Verify after download 0 Optimize Upgrade duration (Remove some FFs)	Select <u>T</u> arget(s):	00 01 02	Internal Fl Option By OTP Mem	tes ory		24 sectors 2 sectors 2 sectors	s (Double Cli	ck for more	:)
00:00:00 Choose Upgrade Verify	File: <u>Choose</u> Transferred data size 0 KB(0 Bytes) of 0 KB(0 Bytes)			File: Vendor ID: Procuct ID: Version: Version: Optimize	Dark1 0483 0000 0000 er dowr Upgrad	616S1.1.1.dfu Targets in 09 S1 nload de duration (Remo	 ove some FFs		

Figure 5 .dfu successfully loaded

6. Upgrading the Beatrice P1/2 firmware

The firmware is now ready to be put on to the Beatrice P1/2. Tick the 'Verify after download' box first and then click 'Upgrade'.

	-Upgrade or V	/erify Action	1			
	File:	Dark1616	S1.1.1.dfu			
	Vendor ID:	0483	Targets in f			
	Product ID:	0000	00 ST			
	Version:	0000				
<		ter download Upgrade di	uration (Remo	ve some F	Fs)	
	Ch <u>o</u> ose.		Upgrade		⊻erify	
				7		_
	le correctly loaded.					
				\bigtriangledown		

Figure 6 Upgrade

Click yes to proceed.

DfuSeDer	no	×
?	Your device was plugged in DFU mode. So it is impossible to make sure this file is correct for this device.	
	Continue however ?	
	Yes No	
	Figure 7 Start upgrade	

The progress bar along the bottom will show the status of the operation.

Bytes)	venity arter download Optimize Upgrade duration (Remove some FFs)				
Operation duration 00:00:02	Choose Upgrade Verify				
Target 00: Upgr	ading - Download Phase (19%)				
Abort	Quit				

Figure 8 Upgrade status

If the operation was successful, DfuSe Demo will report that "Targery 00: Verify Successful!".

You may also see that it will report how much data was successfully transferred.

🧼 DfuSe Demo (v3	.0.5)					_		×
Available DFU Devices STM Device in DFU Mode Supports Upload Can Detach Enter DFU mode/HID detach Actions		Manifestation tolerant Accelerated Upload (ST)		Ven Proc	olication Mode: dor ID:	DFU Ma Vendor I Procuct Version	D: 0483 ID: DF11	
Select <u>T</u> arget(s):	Target Id 00 01 02 03	Name Internal Fla Option Byt OTP Mem Device Fe	es ory		Available Sectors 24 sectors 2 sectors 2 sectors 1 sectors	(Double Cli	ick for more	2)
Upload Action File: ChooseUpload Transferred data size 46 KB(47412 Bytes) of 46 KB(47412 Bytes) Operation duration 00:00:05			Procuct ID: Version:	Dark1 0483 0000 0000 er dow Upgra	1616S1.1.1.dfu Targets in fil 00 ST.		s) ⊻erify	
Target 00: Verify successful ! Abort Quit								

Figure 9 Successful upgrade!

7. Final steps

Now click "Leave DFU mode" to finish the procedure.

🧼 DfuSe Demo (v3.0.5)		– 🗆 X				
Available DFU Devices STM Device in DFU Mode Supports Upload Manifestation tolerant Supports Download Accelerated Upload (ST) Can Detach Enter DFU mode/HID detach	Application Mode: Vendor ID: Procuct ID: Version:	DFU Mode: Vendor ID: 0483 Procuct ID: DF11 Version: 2200				
Actions Figure 10 Final-step						

You may now disconnect the USB cable and continue to use the Beatrice P1/2 with the freshly updated firmware!

UPDATING THE ULTIMO CHIPSET

The Ultimo Chipset is a device supplied by Audinate that does most of the processing for the actual Dante/ AES67 network audio streams. There is one Ultimo Chipset in each Beatrice. We supply special code (a .dnt file) that sets up/ initiates the Ultimo Chipset and makes it work in particular way that is compatible to the Beatrice.

Finding Out Current Installed Version

Using Dante[®] controller double click on the Beatrice device name in the routing tab to open the Device View box.

Ion the Device View box open the Status Tab.

The 'Product Version:' shows the currently installed version of Ultimo Chipset dnt code.

Finding Out What The Latest Available Version Is

Go the Beatrice's web page at Glensound.com and open the 'Firmware Latest Version' Tab.

This will give both the latest version numbers/ file names and also the location to download the file from.

Updating the device

The firmware that runs in the Ultimo Chipset is updated using Audinate's Firmware updating tool. The updating tool and a user guide can be downloaded from Audinate's website:

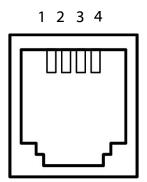
https://www.audinate.com/products/firmware-update-manager

NOTE:

Please note we strongly advise that when you do the update that only your PC and the Dante device that you want to update are on the network to save accidently updating the wrong Dante device.

WIRING INFORMATION

Headset Wiring



4P4C RJ AUDIO PINOUTS:

- 1: MATE/ NEGATIVE/ MIC -
- 2: EARPIECE +
- 3: EARPIECE -
- 4: INPHASE/ POSITIVE/ MIC +