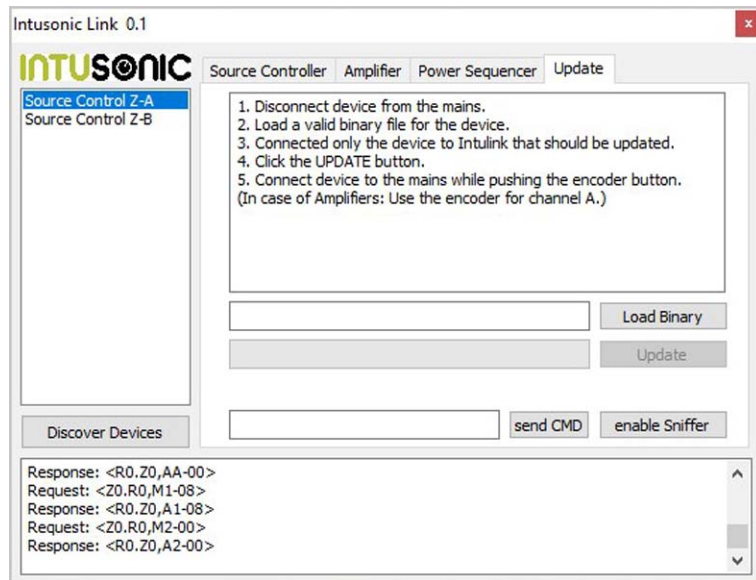Changing to the "Update" tab, the screen will look as follows:

In this tab, a new firmware can be transferred to the target product (if applicable). Simply have a binary (.bin) file with the updated firmware ready and follow the on-screen instructions.

Likewise, in this menu an IntuLink-command can be invoked manually. Enter the command in the CMD field and click "send CMD".

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INTULINK

RS485M Command Specification

RevA

◼ Welcome

Thank you for choosing INTUSONIC for your sound system. To make sure that this product meets your expectations and provides long-term, reliable performance, please read and follow this instruction manual carefully.

◼ Manual language

UK   This user manual is written in English. For other languages, please use an auto-translation service of your choice.

FR   Ce guide est écrit en anglais. Pour les autres langues, veuillez utiliser un service de traduction automatique de votre choix.

DE   Diese Anleitung ist in Englisch verfasst. Für andere Sprachen verwenden Sie bitte einen automatischen Übersetzungsdienst Ihrer Wahl.

ES   Este manual está escrito en Inglés. Para otros idiomas, utilice un servicio de traducción automática de su elección.

PT   Este manual está escrito em Inglês. Para outros idiomas, use um serviço de tradução automática de sua escolha.

IT   Questo manuale è scritto in inglese. Per altre lingue, utilizza un servizio di traduzione automatica a tua scelta.

◼ PC Control

INTULINK™-compatible products can be remotely controlled by a windows PC via the dedicated INTULINK software. Download the software from the INTUSONIC website and connect a RS485M compatible USB interface to the PC. This interface must be based on a FTDI chipset (FT232RL), other USB-serial converters will not work. Once the interface is connected and the INTULINK software is launched, click the "discover devices" button to see all connected devices. Every zone of a connected products will appear as a separate device, as in below screenshot:

The specific editable parameters will depend on the target product, please refer to the target product's user manual.

* Range of requested Parameter

** 1 if parameter not supported; 2 if invalid channel; 3 if invalid value

■ Special Messages

Page Command: <Dn.Sm,Pxxxxxx>

Symbol	values	Function
D	Z	Target = Zone Controller
n	A	Broadcast to all zones
S	P	Source = Pager
m	0	Default Pager ID
P	P	Page command ID
xxxxxx	X or O	Enable or disable paging

■ Examples

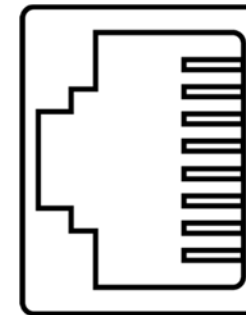1. Set level of Zone 1 to 10: <Z1.R1,LA-10>
2. Get level of Zone 1: <Z1.R1,LA-??> (Response: <R1.Z1,AA-10>)
3. Mute output of Zone 2: <Z2.R1,KA-0>
4. Get Temperature 2 of Amp 4: <A4.R1,t2-??> (Response: <R1.A4,A2-25>)
5. Enable Paging for Zone 2 and 6: <ZA.P0,POXOOOX>
6. Paging for all Zones on: <ZA.P0,PXXXXXX>
7. Paging for all Zones off: <ZA.P0,POOOOOO>

■ About this document

IntuLink™ is Intusonic's inter-communication bus between a variety of devices. This document specifies the commands used for this communication, to the extent as they are suitable for disclosure and external access.

■ The Intulink™ bus system

Intusonic's Intulink™ control bus system uses standard CAT5/CAT6 shielded cables and combines RS485 control lines with power supply lines and a mono balanced audio connection according to the following pinout:

1. TXD/RXD-
2. TXD/RXD+
3. Not Connected
4. GND
5. Power +12V
6. Power -12V
7. Audio Mono Balanced +
8. Audio Mono Balanced -

⚠ **WARNING!** Do not connect any other devices but Intusonic products with Intulink™ bus connection to the RJ45 ports of this unit. PC network connections or other manufacturer's RJ45-based interconnection systems are or may be incompatible, and the attempt of making such connection may result in damage of this unit or other equipment. The manufacturer accepts no claims towards damages evolving from incorrect connections.

⚠ **ATTENTION!** Obey the instruction tendered in a products# user manual for cabling, grounding and EMC compliance.

■ Electrical Bus Configuration

Physical Layer
RS485; 9600 Baud; 8n1

Termination according to ESTA E1.20

R1	562R
R2	562R
Rt1	133R
Rt2	120R
1	DGND (Pin 4)
2	Data- (Pin 1)
3	Data+ (Pin 2)

■ Standard Messages

<Dn.Sm,Pc-vv>

Symbol	values		Function
D	A	Amplifier	Target Device Type
	S	Power Sequencer	
	Z	Zone Controller	
	R	Remote	
n	1 – 9 or A		Target ID (i.e. Zone)
S	A	Amplifier	Source Device Type
	S	Power Sequencer	
	Z	Zone Controller	
	R	Remote	
m	1 - 9		Source ID (i.e. Zone)
P	L	Level [0-33]	Parameter ID
	K	Kill [0,1]	
	S	Source [0-5]	
	M	Mix [0-33]	
	D	Delay [0-99]	
	t	Temperature °C [??]	
	v	VU [??]	
	s	Status [??]	
	A	Acknowledge [*]	
	N	NACK [**]	
c	1 – 9 or A		channel
vv	00 – 99 or ??		value