

# Intelligent Audio Bridge

**New Product  
Release**

Introducing the new Intelligent Audio Bridge from BISS Tech. The new Bridge is a six port audio switching matrix that builds on BISS Tech' highly successful range of Audio Bridges by incorporating a variety of signal process and control techniques with user configurability through software. The Bridge provides you with a number of powerful and useful features that can be used in radio network design, maintenance and reconfiguration.

**Remotely  
Configurable  
Software Included**



## Key Advantages to You

- Bridge configuration can be changed while the system is operational
- Timings can be adjusted to suit your radio network
- Network functions can be controlled according to the time of the day
- Performance of fast CTCSS input to output keying
- The Bridge can be remotely controlled and maintained via existing links
- Compatible with the BISS Tech Argus Telemetry System

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## Benefits to You

- ✓ You can tune the bridge to provide efficient radio communications
- ✓ The Bridge allows your network to be re-configured in emergency situations or to meet peak traffic demands
- ✓ The Bridge provides you with flexibility in forming groups of users or separating control and audio paths
- ✓ The Bridge eliminates long delays in multi-hop links
- ✓ You can save valuable \$\$\$ in power conservation
- ✓ You can make changes from a remote central computer using the familiar Windows Interface<sup>©</sup>

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# Hardware Features

Features	Advantages	Benefits
CTCSS decode and encode functions for each port supporting 42 commonly used frequencies	<ul style="list-style-type: none"> <li>* Supports fast input output keying</li> <li>* Dynamic bridge configuration according to received frequency</li> </ul>	<ul style="list-style-type: none"> <li>* Eliminates multi-hop delays</li> <li>* Flexibility in creating user groups</li> <li>* Separate data/control functions on a link from repeaters</li> </ul>
RS-232/485 DTE Communications	Provides connection to a PC or GSM/PSTN modem	<ul style="list-style-type: none"> <li>* Allows changes to be made to the unit in the field using a laptop computer or remotely using a modem</li> </ul>
V23 Modem for data communications over radio	Utilises the existing radio link to perform changes	
DTMF Capability	Supports simple system reconfiguration functions such as System Splitting using a mobile radio	Network Manager can invoke a preset configuration on demand
Opto-isolated digital inputs	<ul style="list-style-type: none"> <li>* Can be used as digital CTCSS mute inputs, alarm functions and general I/O</li> <li>* Control port switching functions</li> </ul>	
Real time clock	Functions can be enabled or disabled according to the time of the day	<ul style="list-style-type: none"> <li>* Reduced power consumption</li> <li>* Reduce annoying tones</li> </ul>
8-bit low power microprocessor with Flash memory	Software can be customised to suit specific applications and is programmable in the field	
Tone Generator	* Provides confirmation tones in response to bridge commands	* Can be used to provide tone voting or confidence tones

# Software Features

The BISS Technologies Intelligent Audio Bridge comes with user-friendly software to allow you to configure the Bridge to suit your own application requirements. The software will provide you with the following features:



- Up to 8 programmable configurations. Each configuration provides a user-configured Mute-in to PTT output mapping. Any one configuration can be invoked through various functions.
- Dynamic re-configuration through digital or audio signalling. The active Bridge configuration can be temporarily changed to one of eight preset maps through the activation of a digital input; on reception of a CTCSS tone; or when commanded by an operator using DTMF signalling.
- Fast CTCSS keying. Immediate PTT on reception of a mute until a preset CTCSS frequency is detected or a user configured timeout occurs
- System splitting function. This allows an operator to switch-in one of the eight maps from their mobile
- Heartbeat voting facility that can be scheduled for a certain period of the day and with configurable parameters such as frequency, duration and repeat interval
- Adjustable PTT hold times
- Adjustable Mute-in to PTT out delays
- Programmable 4-digit security code to prevent unauthorised changes to the Bridge
- Argus Telemetry protocol based communications
- Local or remote bridge configuration using a Windows application

## Specifications

### Power Requirements

Supply Voltage: 10 to 16 Vdc, plug pack supplied  
 Supply Current: 400mA max  
 Power Supply Rejection Ratio: >80dB

### Audio Input/Output

Impedance: 600 ohms balanced

### Physical

Dimensions: (HxWxD): 44mm x 485mm x 255mm  
 Weight: 5 kg

### Environmental

Operating Temperature: 0 to 60 deg. C  
 Relative Humidity: 0 to 95% non condensing

More Detailed Specifications Available on Request

