



DAS-9000

DIGITAL AUDIO SPLITTER



Operating Instructions

TiL Document No. 24RE648

Revision N/C Issue 1

3 September 2024

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REVISION HISTORY
[24RE648]

For the most current revision of this document, please check the Technisonic website: www.til.ca

REV	PAGE	DESCRIPTION	DATE	EDITED BY
N/C i1	All	Corrected typo as per CR 25701.	Oct. 27, 2025	MM

NOTES

CAUTION STATIC SENSITIVE !



This unit contains static sensitive devices. Wear a grounded wrist strap and/or conductive gloves when handling printed circuit boards.

FCC COMPLIANCE INFORMATION

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 and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: 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 the equipment is 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 correct the interference at his/her own expense.

WARNING AND DISCLAIMER

Changes or modifications not expressly approved by Technisonic Industries could void the user's authority to operate the equipment.

This manual is designed to provide information about the DAS-9000 Digital Audio Splitter. Every effort has been made to make this manual as complete and accurate as possible.

WARRANTY INFORMATION

The Model DAS-9000 Digital Audio Splitter is under warranty for one year from the date of purchase. Failed units caused by defective parts or workmanship should be returned to:

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SECTION 1: GENERAL DESCRIPTION

1.1 INTRODUCTION

This publication provides operating instructions for the DAS-9000 Digital Audio Splitter.

1.2 DESCRIPTION

The DAS-9000 Digital Audio Splitter is an interface which allows a TDFM-9000 Series transceiver to be connected to up to 5 TDAP-650 audio controllers via the digital audio data lines. Each audio controller operates independently so each user can select his own audio and transmit selection without interference to/from the other users. Other audio sources such as AM coms, NAV audio, can be wired to the audio controllers that require them, typically the pilot and co-pilot panels.

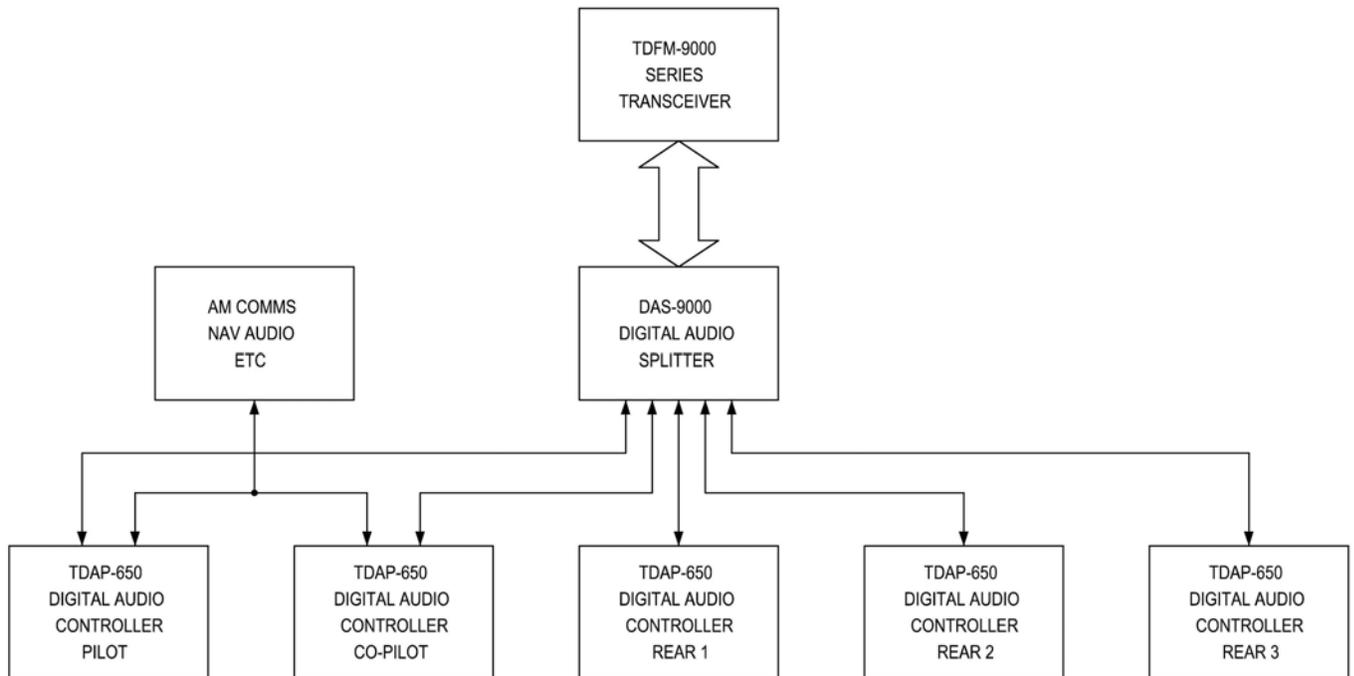


Figure 1: Five panel system with the DAS-9000

SECTION 2: OPERATING INSTRUCTIONS

2.1 GENERAL

The DAS-9000 does not have any user controls but an understanding of the following concepts is important to successful operation.

2.2 SYSTEM SETUP

In a system using digital audio to connect a TDFM-9000 series radio with the TDAP-650, it is the radio that determines which bands are connected to which com button on the audio panel. This is setup in the radio's maintenance menu. Only com buttons 3 through 8 on the TDAP-650 can be selected for digital audio as com buttons 1 and 2 are reserved for essential VHF AM com radios only. See the operating instructions for the associated radio for a detailed setup procedure.

2.3 COM BUTTON SELECTION

The same digital audio data is sent to all audio panels in the system simultaneously, therefore all the panels will have the same layout of com buttons as was set up in the radio maintenance menu. Other transceivers can be wired according to requirements, ie: VHF com and Navigation may only be available to the pilot's audio panels or a music channel may only be available to the passenger panels.

2.4 TRANSMIT

If two (or more) users transmit on the same band / com button selection, both voices will be heard at the receiving radio. Push to talk inputs are summed such that the radio will transmit whenever one or more PTTs are keyed and won't stop transmitting until all PTTs are unkeyed.

2.5 VOLUME CONTROL

To achieve the best audio quality, the radio volume control should be set and left at a reasonably high level (17 in the TDFM-9100 or 35 in the TDFM-9000/9200/9300) and the TDAP-650 individual input volume controls be used to set a comfortable listening level. It is possible to set the volume levels on the radio and then disable the volume control so the levels cannot be changed accidentally.