VT-260 - VoIP Audio Interface Module

Description:

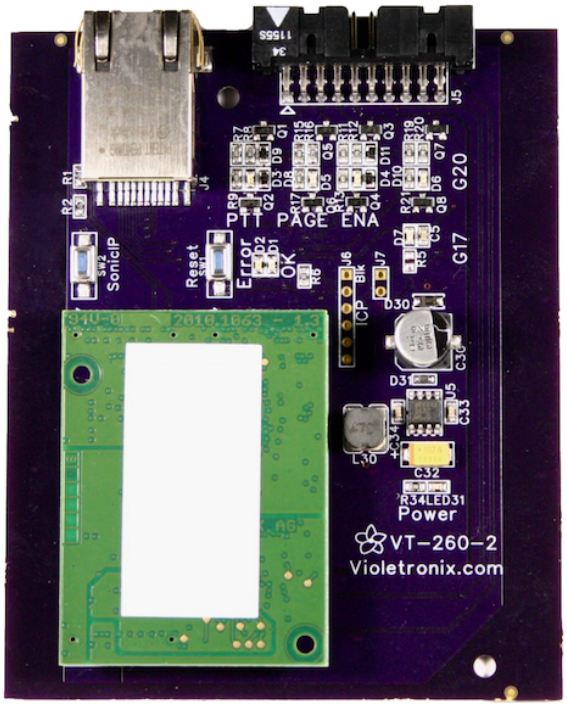
- IP enable any Uni-directional or Bi-directional simplex audio device.
- Proven support for Tech Works ICA-202D Amplifier or Harding DXL Digital Communication Controller

Features:

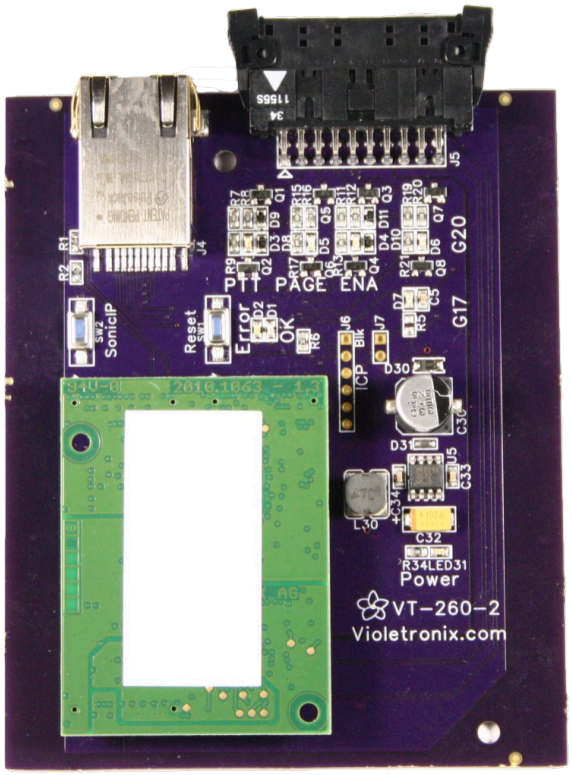
- Web browser based configuration and status page.
- Audio Stream Recording support.
- Line level audio input and output.
- Sinking outputs to indicate Audio Connected, Audio Direction, and Auxiliary Hi-wattage Page Mode states.
- Simple two connector design, a Network RJ-45 connector and a multi-pin Audio / Control / Power connector for easy installation and maintenance.
- Onboard Power, Health Status, Diagnostics and Network link LEDs.
- Built-In Sonic IP address support.
- Wide power supply voltage range - 9VDC to 24VDC.
- Draws between 500mA to 1A.
- Designed to be mounted in TE 3TK2 / 3TK2D snap track.
- Board material: Industry standard FR4 94-V0 fire resistant self extinguishing fiberglass epoxy.
- Dimensions X:3.25 inches, Y: 3.95 inches

Note:

- Requires a VT-VAMRS unit for Audio Stream Recording.

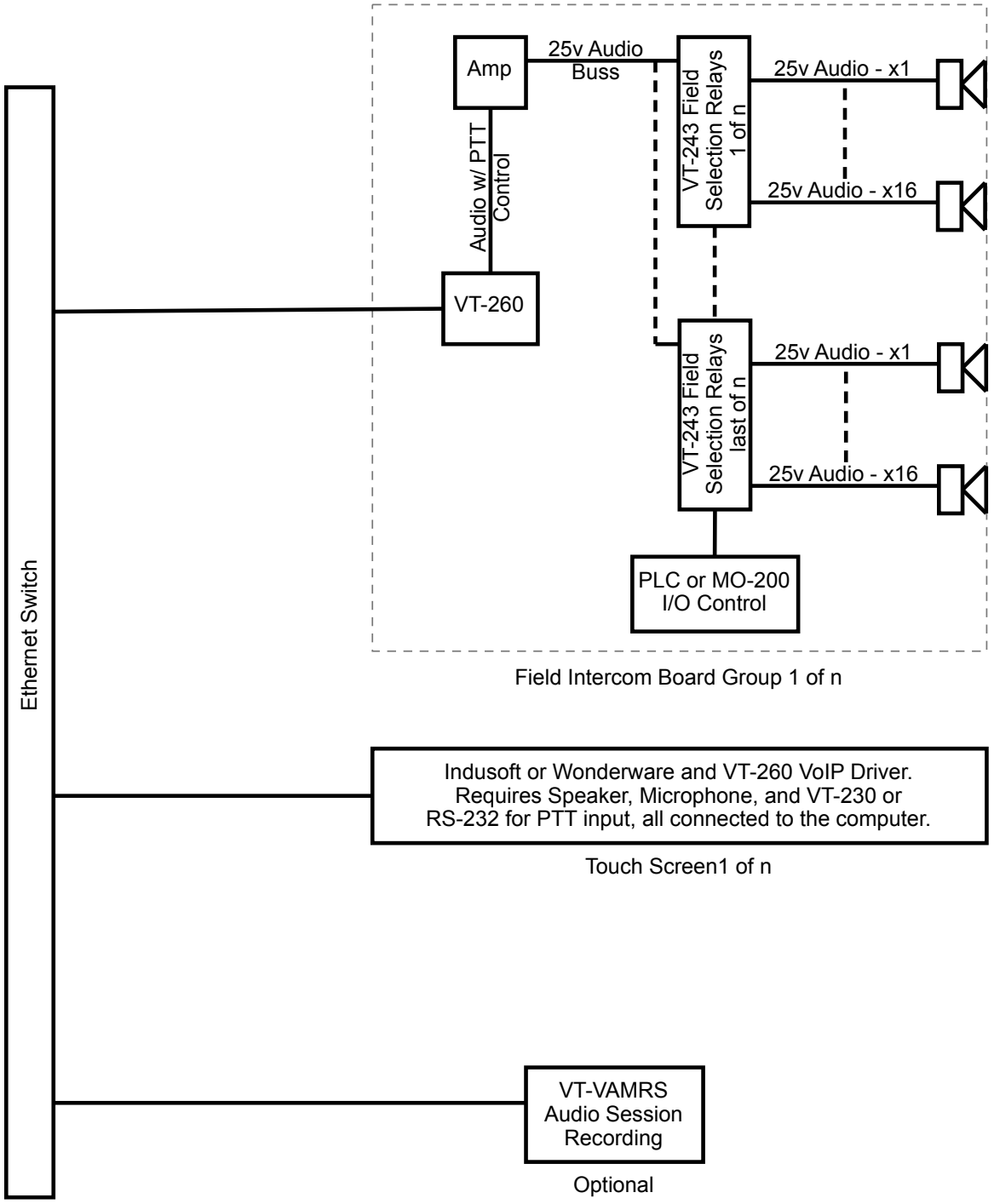


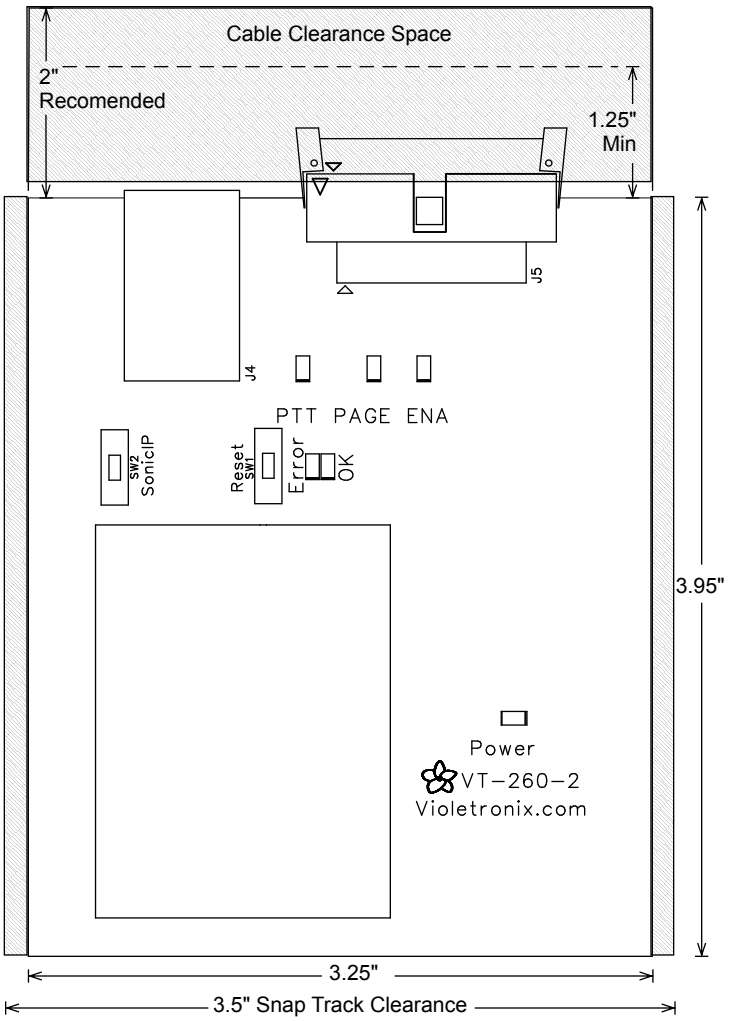
Shown without Audio/Control/Power cable connector.



Shown with Audio/Control/Power cable connector.

Typical VT-260 System Configuration using a two way simplex amplifier

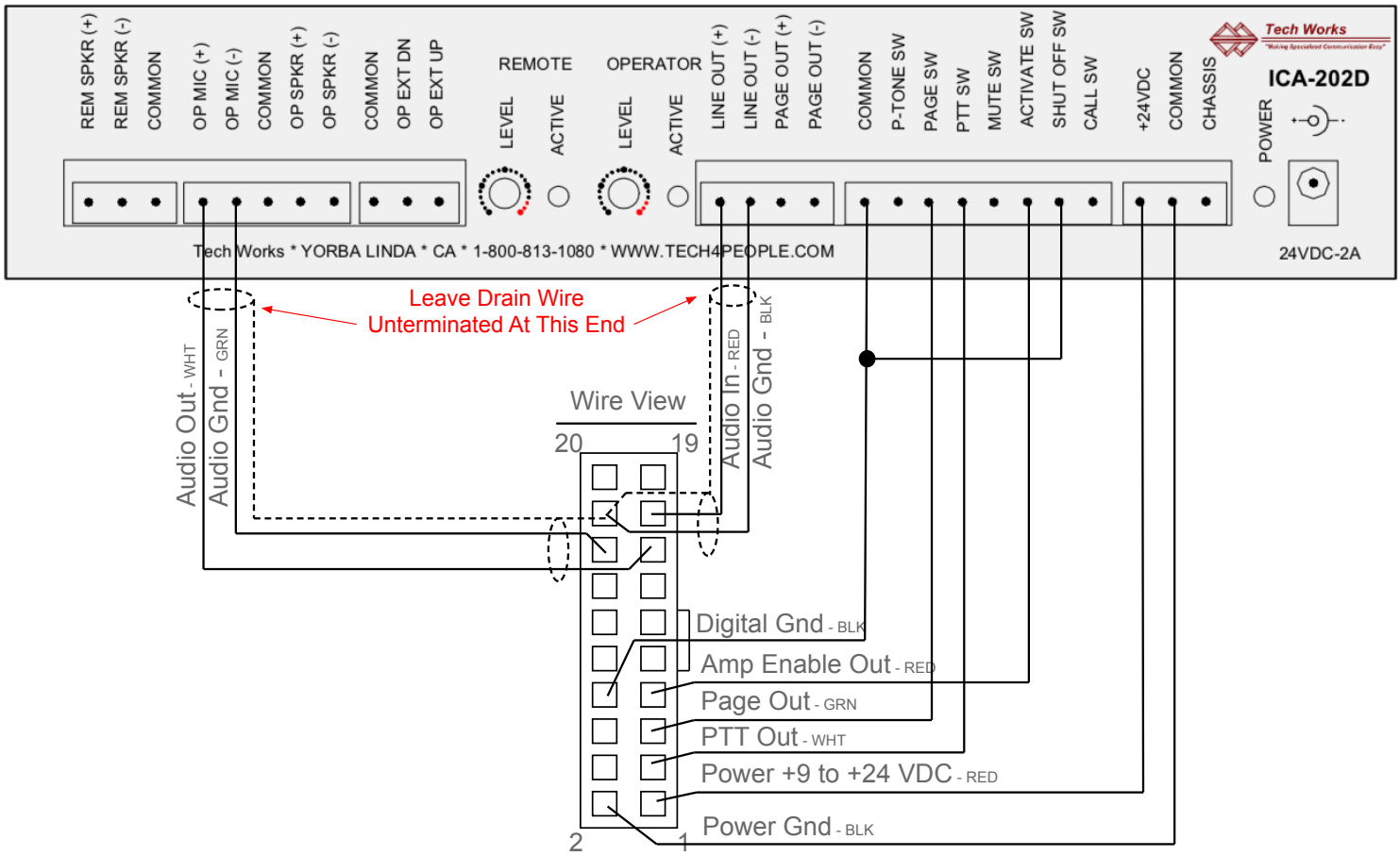




Audio / Control / Power Connector Pinout

Wire View

20		19
N.C.		N.C.
Audio Gnd		Audio Input from Amplifier
Audio Gnd		Audio Output to Amplifier
Digital Gnd		Reserved - DO NOT CONNECT
Digital Gnd		Sonic IP Input
Digital Gnd		Reserved - DO NOT CONNECT
Digital Gnd		Amp Enable Output
Digital Gnd		Page Output
Digital Gnd		PTT Output
Power Gnd		+9 to +24 VDC
2		1



Simplex Amplifier Wiring Diagram

Installation / Startup Procedure - Simplex Amplifier:

1. Mount the Snaptrack with appropriate clearance for wire management.
2. Mount VT-260 in the Snaptrack.
3. Warning: Power off the Simplex Amplifier, if powered.
4. Wire the VT-260 to Simplex Amplifier as shown above or equivalent.
5. Adjust the Simplex Amplifier's audio levels, inbound and outbound, to mid-range (50%).
6. Temporarily connect a Remote Audio Speaker to the output of the Simplex Amplifier.
7. Connect a DHCP enabled network to VT-260.
8. Power the Simplex Amplifier and VT-260 units in tandem.
9. Press and hold the "Sonic IP" button on VT-260 to force the Simplex Amplifier into Talk mode, so that the DHCP IP address can be heard from the Remote Audio Speaker that is connected to the Simplex Amplifier.
10. Web browse to the IP Address that is spoken in order to configure a Static IP Address for the VT-260 unit.
11. Label the VT-260 with the configured Static IP Address.

Notes:

A. Leave the VT-260 audio levels at mid-range (50%), increasing the gains will likely introduce undesirable hum and or hiss.
B. Audio level adjustments should be constrained to the Simplex Amplifier's Remote Speaker Output level, and the computers's Speaker Output and Microphone Input levels.
C. At startup, the Red "Error" LED will alternately blink with the Green "OK" LED until the network connection is established and a DHCP IP address is obtained, and then Red LED will blink alone while the "Sonic IP" Address is being spoken. The Green LED will illuminate constantly after the startup sequence has completed successfully.
D. The "Sonic IP" Address is only spoken once after VT-260 startup / Reset, irregardless of how many times the "Sonic IP" button is pressed. The "Sonic IP" button is not a software function, but a hardware function that only forces the Simplex Amplifier into Talk mode to aid in hearing the IP Address of the unit.
E. Pressing and holding the Reset button until the Red LED starts to blink, will restore the unit to factory defaults.