



GTT Features Demo

A scripted menu example using the Matrix Orbital Rev2.0 GTT

Application Note

Revision 1.0

Introduction

This demonstration application showcases a number of new features released as part of GTT firmware revision 2.1, such as scripted regions and labels, next to a few classic commands. Files are available to run the program on any GTT35A, GTT43A, GTT50A, or GTT70A. For this demo, only a basic understanding of GTT hardware is required, and a firmware version greater than 2.1.

Hardware/Protocol Manuals

Hardware documentation outlining power and communication connections for your GTT as well as Protocol information can be found at www.matrixorbital.ca/manuals/GTT_Series.

Drivers /Software

USB drivers for all GTT USB models can be found at www.matrixorbital.ca/drivers. Software to test the basic functionality of any GTT can be downloaded from www.matrixorbital.ca/software.

Upgrade

To use the features employed by this demo, a firmware version greater than 2.1 is necessary. This may require a firmware upgrade. Instructions regarding the upgrade process can be found in the Firmware Upgrades section of your Protocol Manual, and current firmware files can be downloaded from www.matrixorbital.ca/software/GTT2.0/GTTFirmware.

Demo Program

To run the features demonstration, copy all of the files from the base folder for your specific GTT to the root directory of your SD card. Please note that this application requires a specific autoexec file, so you may want to save your current file before replacing it. The features demo is completely self-contained: no external communication is required. Simply apply power to your GTT then wait for all files to load before the home screen appears. The new scripted region feature takes care of all menu functions, and showcasing some of the features unique to the Matrix Orbital GTT line.

New Features

Scripted Regions



Figure 1: Scripted Menu

New to GTT firmware revision 2.1, scripted regions allow navigation and basic features to be implemented internally, without needlessly burdening an external controller. The ability to build an entire screen from a script file has been available since the release of the GTT, but now these scripts can be executed directly from the display using region or key events.

Labels

The addition of labels to the GTT line allows a portion of the screen to be set aside for a single line of text that can be used to display variable information, stylized headings, or angled text.



Figure 2: Calculator Label

Other Features

Piezo

The ability to provide variable frequency audio feedback has been a staple in the GTT family. Now output can be triggered internally, using scripted buttons, as evident in the piano screen.

Animation

A tremendously useful, but often overlooked GTT feature is the ability to pause, play, and step and animation file. The photo screen makes use of this ability to create an interactive picture album.

Fonts

Finally, the GTT offers the ability to upload and implement any .ttf font file to provide unparalleled interface customization. Once loaded, any size or colour desired can be specified for standard or even label text.

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