

GreenWave

GreenWave is Oriux's traffic controller software package for its line of ATC controllers including the ATC-1000, ATC-2000, C-3000 and the new C-5000 traffic controller.

Featuring a powerful Linux-based multi-process traffic engine and environment, GreenWave is easy to program from the front panel and remotely from one of several NTCIP-based central system software packages, including Oriux's Spinnaker ATMS. It also features a web server application that enables authorized users to remotely access and configure the controller through any mobile device connected to the network running a compatible browser, such as Internet Explorer, Google Chrome or Apple Safari. This feature gives users the flexibility to connect to the controller without having to leave their vehicles on those hot summer or cold winter days.

GreenWave features the most advanced Transit Signal Priority (TSP) algorithm in the market, with more ways to adjust signal operation and the fastest way to get back to coordination. It also features High Density Logging, gathering data from all inputs and outputs in the controller on a 1/10th second basis and record that data for later retrieval allowing Traffic Engineers the ability to observe the operation of the controller under real time conditions and make adjustments to timing to improve the operation of the signal











- Embedded Web Server, allowing authorized users to remotely access and configure the controller through any mobile device
- The most Advanced Transit Signal Priority algorithm in the market
- High Density Logging, gathering data from all inputs and outputs in the controller on a 1/10th second basis
- Traffic Engine Recording, providing users the ability to record the operation of the traffic engine for the purpose of troubleshooting problems
- Peer to Peer communications, allowing information to be sent directly from one controller to another
- Critical Intersection Control, allowing the cycle optimizer to add 4,8 or 16 seconds to the cycle if the intersection is saturated
- Advance Scripter, allows custom applications to be created without writing new software
- Dual Traffic Engine, Phase-based and Intervalbased operation in a single unit - The ONLY controller in the world with this capability
- Supports transitions between phase-based and intervalbased operation with no need to restart the controller, merely by switching between patterns
- Support for interchangeable I/O and D modules modules are auto-recognized
- Full I/O mapping, every pin can be mapped to another functionmenu

- Fully NTCIP compliant
- 32 preemption runs available for each traffic engine
- Supports 32 phases and 8 rings
- Support for Added Initial, Gap Reduction, and Dynamic Max timing
- MMU status display
- Configurable Overlaps with Flashing Yellow
 Arrow
- Pre-timed timing and signal plan setup
- Support for standard and custom daylight savings time plans
- Ability to load pre-configured intersection setups from memory (a simple 8phase, dual ring setup, and an 8 phase dual ring setup with Coordination and Preemption configured.)
- Ability to copy screens of parameters between similar parts of the configuration database (e.g. Coordination pattern > pattern, day plan > day plan, etc.)
- On-screen diagnostics mode for I/O, Comms, Memory, Real-time Clock, and USB testing
- Low level device utilities menu for testing keyboard inputs, display performance, operating voltages and other system parameters
- Context-sensitive help screens throughout the front panel interface

1.1.1 TS22 Mon 04-Apr-2011. P1:OK RING STATUS 15:53:22 CAB:00F7
R1 02 EXT 00.0 M1 005 DW PRE INP
R2 06 GRN REST PRE KBD
R3 RED REST DW
R4 RED REST DW
CALL STATUS 111111 1234567890123456 CRD CMD:254
VEH C C C SYS CMD: 6 PED C C C C TOD CMD: 11s PHS

GreenWave provides an array of status monitoring screens

About Oriux – covers a broad range of quality turnkey traffic control products and services. Oriux products have helped to make motorists around the world safer and their travels more pleasant and efficient. This expertise, experience, and breadth of product lines has made Oriux one of the most respected and recognized leaders in the traffic control marketplace The information contained in this publication is presented for informational purposes only, and while every effort has been made to ensure its accuracy, the information is not to be construed as warranty or guarantee, express or implied, regarding the products or services described herein or their use or applicability. No license is granted by implication or otherwise to any of Oriux's intellectual property. Oriux reserves the right to alter or revise any of its products or published technical data related thereof at any time without notice. ©2012 Oriux.