

MAXTIME IC

LOCAL TRAFFIC SIGNAL CONTROL SOFTWARE WITH SMART MOBILITY BUILT-IN



OVERVIEW

MAXTIME ic is a Linux-based local intersection control software that goes beyond your standard signal timing tools, offering advanced tools and functionality for smart mobility and the future of connected and autonomous vehicles (CAV). Designed for ATC controllers, the traffic signal control software is built on a platform based on a rich set of industry standards including NTCIP, NEMA, MUTCD, and FHWA. With a web server built-in, all operations and management can be completed through a web browser without the need for special software on a computer, laptop, or mobile device.

Execute standard signal timing with ease and master advanced functions without complex logic strings or modified controller operations using the system's intuitive user interface and menu structure. Utilize the web-based app for centrally scheduling software updates for all intersections without a traffic management system (TMS).

Every MAXTIME ic purchase comes with Q-Free's Device Manager and free access to the management information bases (MIBs) to reduce maintenance costs and boost interoperability with third-party solutions and smart city applications.

BENEFITS

- Operate standard signal timing with ease
- Faster integration with 3rd party controllers and run multiple applications using ATC API
- Expand traffic control functionality with the intuitive user interface and menu structure
- Manage devices remotely with built-in Web-based app for centrally scheduling software updates for all intersections - no app required
- Reduce maintenance costs and boost interoperability with third parties and smart city applications using Q-Free's publicly available MIBs



ADVANCED
FUNCTIONALITY
BUILT-IN



WEB-BASED
REMOTE DEVICE
MANAGEMENT



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INDUSTRY-LEADING FEATURES

- Intuitive and advanced user logic programming
- On-board web server (no proprietary database editor)
- Monitor and modify timing directly from Windows and Apple-based computers, tablets, or smart phones without special software
- Store and switch between hundreds of timing databases
- Easy, automated software updates via network or USB flash drive (no need for terminal servers or proprietary installer programs)

ADVANCED CONFIGURATIONS

Perform a variety of advanced programming out of the box.

- Peer-to-peer (P2P) communications
- Single-point urban interchange (SPUI)
- Continuous flow intersections (CFI)
- Diverging diamond interchange (DDI)
- Compound intersections with multiple approaches
- Bus and light rail transit (TSP/LRT) applications
- Predictive arrival/departure adjustments
- HAWK/pedestrian hybrid beacons
- Preemption routing
- Queue responsive

BEYOND THE STANDARDS

Building beyond the standards, it is important to look at the greater goal of why these standards exist – to boost interoperability and reduce reliance on and the expense of single-vendor solutions.

Management information bases (MIBs) that provide necessary information for interoperability with MAXTIME ic software is available to all – putting you in the driver seat.

To download the MAXTIME ic MIBs, visit our website at www.q-free.com/download-mibs.

MAINTENANCE MADE EASY

Utilize our web-based Device Manager to centrally track and schedule firmware updates.

- Schedule individual or bulk firmware updates
- Run updates without putting intersections in flash
- Schedule updates during low travel times & receive automatic notifications of issues
- Save hundreds of hours of time vs. manual updates
- Protect personnel through reduced time in the field
- No ATMS needed

STANDARD FEATURES

- Linux based
- 128 independently-programmable coordinated or free timing patterns
- Rapid transition times with user-override min/max limits using critical path transition algorithm
- Extended pedestrian features: delayed walk, delayed, green, and alternate walk/FDW timing, advanced handling to over-sized pedestrian times
- Multiple overlap types:
 - NTCIP: types 1 through 3
 - Flashing yellow arrow (FYA)
 - Flashing red arrow (FRA)
 - Protected/permissive Canadian operation
 - LRT bar indications
 - Pedestrian (normal and minus green/yellow)
 - Right-turn with conflicting pedestrian
- Master/subordinate closed-loop operation
- Advanced phase intervals:
 - Min green 2
 - Pre-green/walk
 - Delay green/walk
 - Pre-clearance
 - Alternate pedestrian times (extended push time)

