

MAXTIME IC

LOCAL INTERSECTION CONTROL SOFTWARE



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 platform is based on a rich set of industry standards including NTCIP, NEMA and MUTCD.

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. Software updates can be easily installed through the web app without putting the signal in flash or power cycling the controller.

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.

Every MAXTIME ic purchase comes with 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 third-party controllers and run multiple applications using ATC API
- Expand traffic control functionality with the intuitive user interface and menu structure
- Manage remotely with built-in web app
- Generate hi-res data at 1/10th of a second for ATSPMs and other reports
- Reduce maintenance costs and boost interoperability with third parties and smart city applications using Q-Free's publicly available MIBs



Easy web app interface



Remote device management



Advanced signal control functionality



Individual user accounts with activity logs

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
- Transit signal priority and light rail transit (TSP/LRT)
- 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.

STANDARD FEATURES

- Linux based
- 40 phases
- 128 independently-programmable timing patterns
- 20 user configurable ring and barrier sequences
- Up to 16 rings per sequence
- 16 preemption routines
- 16 prioritizers for TSP, freight priority, and more
- Status replay
- Rapid transition times with user-override min/max limits using critical path transition algorithm
- Advanced overlap types:
 - Pedestrian
 - Flashing yellow or flashing red arrow (FYA/FRA)
 - Thru FYA with conflicting pedestrian (prevents “yellow trap” scenarios)
 - FYA for right turns with conflicting pedestrian
 - Protected/permissive Canadian operation
 - Light rail bar indications
 - Custom programming
- Master/subordinate closed-loop operation
- Innovative phase configuration options including but not limited to:
 - Advanced walk (lead pedestrian interval)
 - Conditional advanced walk
 - Walk extensions
 - Red clear extensions
 - Conditional phase re service
 - Advance warning beacons
 - Dynamic max
 - Rest in red