

ATC-1000

Advanced Traffic Controller

The ATC-1000 Gen II is the next in the ATC line of modularly-built, standards-based controllers from Oriux. Designed for ease-of-use and easy adaptability, the ATC-1000 Gen II traffic controller features Oriux's latest ATC engine board, a full line of communications options including multiple serial ports, multiple Ethernet ports, multiple USB ports and memory port, and a range of I/O and D modules. Like its predecessor, The ATC-1000 Gen II controller is a native NTCIP Based Controller and is fully compatible with Oriux's Spinnaker® Advanced Traffic Management System, as well as any other NTCIP compatible ATMS. Interchangeable I/O modules and D Modules allow the ATC-1000 controller to be utilized in the latest cabinets, but it will also work as a plug-in replacement in older, non-standards based cabinets that currently house Traconex, and LMD controllers, thus providing an upgrade path for older intersection control hardware.



Features & Benefits

- 40 character x 16 line Backlit LCD Display with optional heater
- Linux Operating System with memory management for process isolation
- Compliant with NTCIP 1201, 1202
- ATC 5201 Modem Slot
- 300MHz Freescale Power Quix 2 processor
- Four independent 100 Base-T Ethernet ports
- Two high speed USB port
- 32 key soft-touch keypad for front panel programming
- Speaks NTCIP protocol-Spinnaker, TranSuite & MIST Central Software

Specifications

Dimensions	14 3/4" Wide x 101/2" Deep x 101/4" Tall (375mm x 267mm x 261mm)
Weight	9 to 11 pounds (4 to 5 kg) depending on which I/O modules, D modules, and modem are installed
Power Requirements	89 to 135VAC 50/60Hz ± 3 Hz 220V option available: 178 to 270VAC 50/60Hz± 3Hz
Environment	(NEMA TS2-2003 specification) -35°F to + 165°F -34°C to + 74°C 0-95% relative humidity
Memory	16MB Flash memory 64MB SDRAM 1MB SRAM
NTCIP Compliance	Traffic application software is NTCIP software compliant, ensuring easy integration into any NTCIP or ITS traffic control system.
Firmware Updates	Via USB port or via ATC Link Software

Operating

Linux v2.6.2.0

System Communications

Connectivity is easily achieved using a variety of communications options:

- 5 serial ports; RS 485 support on one port (jumper selectable)
- Four 10/100 Base-T Ethernet ports
- 3000E compatible modem slot
- Optional 2070 compatible modem slot with full modem control support
- Two High-speed USB ports

Intersection configuration programming interfacing is easily performed in the field, using the provided laptop computer interface software (ATC Link). ATC Link can be connected directly via either an ethernet or a serial cable, or it can be used to store the configuration on a portable USB "flash drive", which can then be downloaded to the device in the field in seconds. Or programming may be downloaded across a network via an NTCIP compliant central system, Spinnaker.

Available D Modules

- ATC D Module
- Oriux 3000E Closed Loop D Module
- LMD 40 D Module
- Traconex D Module
- Multisonics D Module

Available I/O Modules

- NEMA TS2 Type 1
- NEMA TS2 Type 2
- HMC-1000
- LMD 40