ATC-3000

Advanced Traffic Controller

Overview

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The ATC-3000 is the rack-mounted version of the Peek Traffic ATC controller. These controllers are designed to be modular and based on the widest range of traffic controller standards in the world. Emphasizing ease-of-use and easy adaptability, the ATC-3000 traffic controller features Peek Traffic's latest ATC engine board, a full line of communications options including multiple serial ports, multiple Ethernet ports, a USB firmware and memory port, and a range of I/O options.

The ATC-3000 takes all of the capabilities of the Peek Traffic ATC-1000 and ATC-2000 controllers and places it into a form that is compatible with standard cabinet racks. At 4U in height and 17" width (43.2cm), with 19" wide mounting brackets (28.3cm), the ATC-3000 will fit into a variety of standard cabinet styles, including 2070, CalTrans 330, the Semex International cabinet, and also Peek's own ASTC-12 Central Business District cabinet, the enclosure used so successfully throughout the Cities of New York, San Salvador, and Lima.

Fully programmable from the front panel, via USB database download, via IQ Link® direct connection, or via IQ Central's sophisticated central system environment using either serial or Ethernet connections, the ATC-3000 controller is a powerful new option that can be used wherever NTCIP and ATC compatibility is required.

Peek Traffic's ATC line of controller are the first in the world to include both interval-based and phase-based (NEMA) traffic engines running side-by-side. In fact with these controllers, it is possible to transition between phase-based and interval based operation on the fly, with no interruption other than a programmably short stint in Red Rest operation.

The ATC-3000 controller uses NTCIP communications natively and is entirely compatible with Peek Traffic's IQ Central® traffic management system, as well as TransCore's TranSuite® software.

With its powerful processor, wide range of interconnection hardware, and easy-to-perform firmware update capability, the ATC-3000 is a controller that can be relied upon to stay current with the latest ITS management schemes and algorithms.

Features

- 40 character × 16 line Backlit LCD Display
- Linux Operating System with memory management for process isolation
- Compliant with NTCIP 1201, 1202
- Peek Traffic modem slot with full modem flow control support
- 300MHz Freescale Power Quix 2 processor
- Two independent 100Base-T Ethernet ports
- High speed USB port
- 32 key soft-touch keypad for front panel programming
- Speaks NTCIP protocol - fully IQ Central compatible
- Auto-recognizes I/O Modules

Specifications

Property	Description
Dimensions:	48.3cm Wide × 26.7cm Deep × 17.8cm Tall (19" × 10½" × 7")
Weight:	9 to 11 pounds (4 to 5 kg) .... depending on which I/O modules and comms hardware are installed
Power requirements:	89 to 145VAC (cabinet conversion from 220VAC) 50Hz/60Hz ± 3 Hz
Environment:	-30°F to +165°F -34°C to +74°C (NEMA TS2-2003 specification) 0-95% relative humidity
Memory:	16MB Flash memory standard 16MB SDRAM standard 32MB, 64MB SDRAM - optional 1MB SRAM
NTCIP compliance:	The traffic application software is NTCIP software compliant, ensuring easy integration into any NTCIP or ITS traffic control system. The ATC controllers also interface with IQ Central®, Peek Traffic's central control system, which interfaces to both legacy controllers as well as other NTCIP compliant devices.
Firmware updates:	Via USB port or via IQ Link

Property	Description
Operating System	Linux v2.6.2.0
Computer interfacing	Intersection configuration programming is easily performed in the field, using the provided laptop computer interface software (IQ Link). IQ 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, such as IQ Central.
Communications:	Connectivity is easily achieved using a variety of communications options: • 5 serial ports; RS 485 support on one port (jumper selectable) • Two 10/100 Base-T Ethernet ports • 3000E compatable modem slot • High-speed USB port

These physical port options allow for interfacing to a variety of communications infrastructures:

- Existing 1200 baud twisted pair
- High-speed serial (RS232) up to 115kbps
- Fiber-optic modems
- Wireless systems
- LAN/WAN applications

Additional Features:

- Power Monitoring
- Power Supply voltages available through the LCD
- Internal Temperature Sensor

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