

ATC-2000

Advanced Transportation Controller

Peek Advanced Transportation Controller

Overview

The ATC-2000 Advanced Transportation Controller from Peek Traffic Corporation is very similar to the ATC-1000, but with a few additional features that make it fully compliant with the most stringent reading of the ATC standard. It adds a power On/Off switch to the front panel. And it gains two more high speed Ethernet ports on the front panel.

The ATC-2000 is the second of the new ATC line of modularly-built, standards-based controllers from Peek Traffic. Designed for power, ease-of-use, and easy adaptability, the ATC-2000 transportation controller features Peek's latest ATC engine board, a full line of communications options including multiple serial ports, the previously mentioned Ethernet ports, a USB firmware and memory port, an optional ATC DataKey, and a range of Comms, I/O, and D modules.

The ATC-2000 controller uses NTCIP communications natively and is entirely compatible with Peek's IQ Central® traffic management system. Just as on the ATC-1000, interchangeable I/O modules and D Modules allow the ATC-2000 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 Multisonics, Traconex, LMD 40, LMD 9200 and HMC-1000 controllers, thus providing an upgrade path for older intersection control hardware.

Programmable from the front panel, via USB database download, via IQ Link® direct connection, or via IQ Central's sophisticated central system environment, the ATC-2000 advanced transportation controller is a powerful new option that can be used wherever NEMA, NTCIP and ATC compatibility is required.

Available I/O Modules

- NEMA TS2 Type 1 I/O Module
- NEMA TS2 Type 2 I/O Module
- HMC-1000 I/O Module
- LMD I/O Module



ATC-2000 with the TS2 Type 1 I/O Module

Features

- 40 character × 16 line Backlit LCD Display
- Linux Operating System with memory management for process isolation
- Compliant with NTCIP 1201, 1202
- 2070 compatible modem slot with full modem flow control support
- 300MHz Freescale Power Quix 2 processor
- Four 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 and D Modules
- Internal voltage monitoring, power supply voltage readings are available on the LCD screen
- Internal temperature sensor

Available D Modules

- ATC D Module
- Peek 3000E Closed Loop D Module
- LMD 40 D Module
- Texas D Module
- Idaho D Module
- Traconex D Module
- Multisonics D Module

Specifications

Property	Description
Dimensions:	14¾" Wide × 10½" Deep × 10¼" Tall (375mm × 267mm × 261mm)
Weight:	9 to 11 pounds (4 to 5 kg) ... depending on which I/O modules, D modules, and modem are installed
Power requirements:	95 to 135VAC 60Hz ± 3 Hz
Environment:	-35°F to + 165°F -37°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 Peek ATC controllers also interface with IQ Central®, Peek Traffic's central control system, which interfaces to both legacy Peek & USTC 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: <ul style="list-style-type: none"> • 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 • 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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