Peek ATC-1000 Advanced Traffic Controller

Peek Traffic Corporation

The Peek ATC-1000 is the first of the new ATC line of modularly-built, standards-based controllers from Peek Traffic. Designed for ease-of-use and easy adaptability, the ATC-1000 traffic controller features Peek's latest ATC engine board, a full line of communications options including multiple serial ports, multiple Ethernet ports as well as a USB firmware and memory port. Also, it uses the NTCIP communications natively.

Description

With interchangeable I/O and power modules, the controller can be mounted in the latest cabinets, but can also be used as a plug-in replacement in older, non-standard cabinets, thus providing an upgrade path for older intersection control hardware.

The Peek ATC-1000 controller is easily programmable on site from the front panel, via USB database download or via IQ Link® direct connection or central system, in the same manner as the fully compatible Peek IQ Central® traffic management software.

The ATC-1000 is a totally new and powerful controller that can be used wherever NEMA, NTCIP and ATC compatibility is required.

Specifications

Components

- 300-MHz Freescale Power Quix 2 processor
- Linux operating system with memory management for process isolation
- 16 line x 40 character backlit LCD display
- 32-key soft touch keypad for front panel programming
- Memory:
    - 16 MB Flash memory (standard)
    - 16 MB SDRAM memory (standard)
    - 32 or 64 MB SDRAM memory (optional)
- Communications:
    - 5 serial ports with RS-485 support on one port

- 2 Ethernet 100Base-T ports
- High-speed USB port
- 3000E-compatible modem slot
- 2070-compatible modem slot with full modem flow control support
- Available I/O modules:
  - NEMA TS 2 Type 1
  - NEMA TS 2 Type 2
  - HMC-1000
  - LMD 40
- Available power modules:
  - ATC
  - Peek 3000E closed loop
  - LMD 40
  - Texas
  - Idaho
  - Traconex
  - Multisonics

Functional characteristics

- Compatibility:
  - NTCIP 1201 and 1202 protocols
  - IQ Central
- Interface with existing communications infrastructure:
  - 1200-baud twisted pairs
  - High-speed serial connections (RS-232) up to 115 kbit/s
  - Fibre optic modems
  - Wireless systems
  - LAN/WAN applications
- Automatic recognition of I/O and power modules

Technical characteristics

- Dimensions: 261 mm (H) x 375 mm (W) x 267mm (D) (10 1/4 x 14 3/4 x 10 1/2″)
- Weight: 4 to 5 kg (9 to 11 lb)
- Supply voltage: 95–135 VAC, 60 ± 3 Hz
- Operating temperature range: –37 to +74°C (–35 to +165°F)
- Operating relative humidity range: 0–95%.

For more information: 1 800 363-5913

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