



ATCC Standard™

Advanced Traffic Controller
Cabinet (ATCC) Standard



ATCC Standard: Safer, smaller, and more efficient with alternative power options.

The Safetran® ATCC Standard™ is built to meet the ATC 5301 V02 Advanced Transportation Controller Cabinet Standard. Each ATC Cabinet is designed to provide safer, smarter, and greener intersections. This intelligent cabinet design is based on the most popular features of Safetran's Caltrans, NEMA, and ITS cabinets. The ATCC Standard uses high-speed serial communications, providing modern features, advanced diagnostics, enhanced safety, simplified cabinet wiring, and reduced cabinet size. The ATCC Standard supports both 120 VAC and 48-volt DC signal heads, while high-density load switches and quad detector modules allow for up to 32 signal outputs and 120 detection inputs.

The ATCC Standard provides both voltage and current monitoring of all signal outputs - even ultra-low-power LEDs.

Certifications: The ATCC Standard is designed to meet FCC Part 15 Class A, IEC61000-4-2, IEC61000-4-4, IEC6100-4-5, UL60950-22, and NFPA 70 article 110-27 and UL508 depending on selected configuration



Input Assembly (24 or 48-channel)

The ATCC Plus supports 120 channels by using a combination of 24-channel and 48-channel detector racks. Features include:

- 48-channel rack has two Serial Interface Units (SIU) that provide eight optically-isolated inputs (four per SIU)
- 24-channel rack has one SIU for four optically-isolated inputs
- Detector cards are hot-swappable
- Dimensions: 9.7"L x 5.2"H x 19"D



Output Assembly (16 or 32-channel)

The ATCC Standard houses a 16 or 32-channel Output Assembly. Both Output Assemblies leverage the new dual-channel, High-Density Switch Packs (HDSP). The Output Assembly also contains the Cabinet Monitor Unit (CMU) and the Main Contactor. The CMU uses a datakey rather than a traditional CMU/Malfunction Management Unit (MMU) programming card. Features include:

- Eight HDSPs provides 16-output channels
- Available in 48 DC and 120 VAC versions
- Circuit breakers protect each pair of HDSPs
- Front panel technician switches for stop time, flash, and 24 V test PB
- Dimensions: 10.9"L x 5.2"H x 19"D



Auxiliary Display Unit (ADU)

The optional ADU is a useful diagnostic tool. Developed to provide the full set of intersection display indicators and includes additional diagnostic capabilities. Features include:

- Visual status of load switches
- LCD screen displays voltage and current levels of each output
- LCD screen provides interface screen for CMU
- Built in diagnostic wizard



Traffic Controllers

The ATCC Standard is designed to work with the Cobalt® Rack Mount controller, or a 2070 controller with an Econolite 2070-1C module installed.

- Options for complex intersections
- Customized features

EOS also provides:

- Cabinet configuration and mapping
- Controller sequencing
- Event/Coordination planning
- Enhanced detector configuration by lane

New Econolite EOS software has been developed for the Econolite Cobalt and other properly configured ATC controllers to operate and leverage all of the enhanced capabilities of the new ATC Cabinet. EOS has been designed to support the latest in:

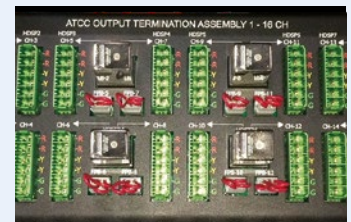
- Emergency Vehicle Preempting (EVP)
- Transit Signal Priority (TSP)



Output Termination Assembly

Each Output Termination Assembly supports 16 channels. It is designed to provide mounting flexibility for rear or front cabinet access, with integrated cable management features. Features include:

- HD flash transfer relays with LED indicators
- Miniature flash program blocks
- Configurable for 48 VDC or 120 VAC operation
- Each output line is protected by a three-stage, over-current, and transient protection circuit
- Transparent rear panel to observe transient protection circuit condition
- Test ports for easy installation and for signal display unit



Input Termination Assembly

Each Input Termination Assembly provides connections for up to 24 loops. The panel is designed to provide flexible mounting options, hinged for easy access to components behind the panel, and offers integrated wire management features to support clean cabinets with support for long wire runs. The panel also provides connections for pluggable surge protection to make sure transient voltages do not damage the traffic equipment. Features include:

- Removable terminal blocks for easy wiring
- Hinged panel with integrated wire management
- Dimensions: 19"L x 7.8"H x 4.4"D





Power Supply

The PS-2216-2412 is a 1U high-power supply that provides 175 watts total power with a 48 VDC auxiliary output, and two fully isolated 24 VDC and 12 VDC outputs over the full -34C to +74C NEMA operating temperature range. Features include:

- Power Factor Corrected (PFC): A PFC circuit ensures a full load power factor of 0.98 or better, reducing peak AC Line input current and associated stress on wiring. Inrush current limited.
- Output Protection: The outputs are fused for over-current protection. The outputs are also protected against voltage transients by a 1500 Watt suppressor.



Service Panel Assembly (SPA)

AC power is attached to the cabinet through the Service Panel Assembly (SPA). The SPA provides two terminal blocks: One for utility power input, the other for external BBS. Features include:

- Removable Flashers (single or dual)
- 20-amp main breaker, 15 amp Clean Bus, 5-amp HDFU, 15-amp Output Assembly and 15-amp GFI breaker
- TEES-compliant plug-in 40,000-volt transient suppressor module with health indicator
- EMI/RFI filtering
- Left-side mounting
- Dimensions: 5.1"H x 9.1"W x 7.5"D
- "Touch Safe" enclosure



ATCC Standard Options

332 66"H x 24"W x 30"D

332S 79"H x 24"W x 30"D

333S 59"H x 44"W x 26"D

333SD 54"H x 44"W x 26"D

332D 67"H x 48"W x 30"D

340 67"H x 44"W x 26"D

336S 46"H x 24"W x 22"D

P38 DDE 55"H x 38"W x 26"D

P44 DDE 55"H x 44"W x 26"D

P65 DDE 65"H x 44"W x 26"D

R77 DDE 77"H x 44"W x 26"D

M60 DDE 60"H x 30"W x 17"D

(50/50 not currently available)