
# STUTTGART™

## Advanced Traffic Controller

The Stuttgart™ Integrated Traffic Controller is the latest in the Stuttgart™ range of controllers with integrated advanced traffic control capability. It hosts a state of the art high-end industrial processor with touch screen LCD that is integrated with on-board detection, conflict monitor, power quality monitoring, cellular and wireless communications.

### COMMUNICATIONS

- LTE Cellular
- Bluetooth 4.2 + BLE
- WiFi 802.11 b/g/n
- Ethernet
- USB
- RS485

### KEY FEATURES

- Wiring-free cabinet
- Open architecture CPU
- Touch screen graphical display
- Open architecture Linux
- ATC+ software with UTOPIA support
- High resolution logging
- Integrated Radar, Video and Magnetometer detection
- Integrated Conflict Monitor
- Integrated GPS time source
- Power quality and consumption meter
- Low power for solar installations

**ARTIFICIAL INTELLIGENCE** REDEFINED

WWW.RADARVISION.ORG

# Adaptive traffic signal control

ENGINEERING EXCELLENCE

# ATC+ SOFTWARE

## ATC+Software Engine Features

### Control
- 8 flexible vehicle + 4 pedestrian phases
- 4 configurable overlap phases

### Service Plans
- 8 service plans
- Selectable by Utopia or TOD
- Independent Phase Flags
  - Omits
  - Lag, Dual Entry
  - Coordinated, Hold and Walk Rest
  - Recalls for Ped, Minimum and Maximum Vehicle
  - Max Inhibit and Full Walk Split

### Coordination
- 15 Patterns
- Max II specified per phase
- Fixed or floating force offs
- Selectable timing flag sets
- Actuated coordinated operation
- Coordinated condition re-service

### Calendar
Multiple day schedules with a perpetual calendar, every holiday is only programmed once for all years

### Detector Assignments
- 32 Detector inputs from radar, video, magneto or discrete
- Assignable to any phase(s)
- Phases can have multiple detectors

### Detector Modes
- Locking or non-locking
- Call and Extend
- Actuate on falling edge
- Release (force off) a phase on actuation

### UTOPIA System Detectors
- Volume Counts
- Fault Detection
- Constant Occupancy
- Minimum Pulse Width
- Erratic Fluctuations
- Absence of Call

### Preemption inputs
- Six Preempt sequences
  - Two track clearance states, hold state and exit state
  - Selectable permitted phases for each preempt state
- Recovery to coordination
- Any input can be used to call a Preempt sequence

flexible solutions for **TRAFFIC**

ENGINEERING **EXCELLENCE**

# ATC HARDWARE

## FEATURES AND OPTIONS

Power and 24 Output Drivers
- 24 VDC
- 110/230 VAC

Built-in Detection
- 4 Video channels - 8 cameras
- 4 Radar channels - 4 3D tracking radars
- Wireless access to 127 magnetometers
- 16 isolated contact closure inputs

Conflict monitor
- Built-in flash and redundant module
- USB allowable phase configuration
- CPU/Power phase monitoring
- 24 Output voltage & conflict monitoring
- Front LED conflict cause display
- Police panel, external monitor outputs

User Interface
- 7" capacitive touch screen

Power Monitoring
- IEC 62053-21-23 accuracy
- Power (kVA, kW, kVAr)
- Energy (kWh billable)

## CPU Specifications

- 1GHz ARM Cortex A7 processor
- 4GB -64GB eMMC
- 512MB – 1024MB DDR3L RAM

## TECHNICAL SPECIFICATIONS

| Characteristic | Min | Max | Units |
|---|---|---|---|
| Storage Temperature | -40 | 85 | °C |
| Operating Temperature | -40 | 70 | °C |
| Supply voltage (AC) | 85 | 264 | VAC |
| Supply voltage (DC) | 10 | 30 | VDC |
| Supply power (AC) | | | Watt |
| Supply current (DC) | | | Watt |
| Drive power per channel | | 500 | Watt |
| Input Isolation | 3000 | | Volt |
| Physical size | 240x150 | | mm |
| Depth | 50 | | mm |