

# STE CARD RACK

Multi-Detector Card Rack



Thanks to its flexible and modular design, this rack is particularly suited for managing complex intersections, parking facilities, or systems requiring the processing of a large number of detection loops, while optimizing space and enabling easy integration into standard cabinets or racks.

## APPLICATIONS

- Complex intersection management
- Management of a large number of loops (4 to 24 channels)
- Parking management

## KEY BENEFITS

- Space-saving design
- Cost optimization
- Easy integration into cabinets or racks

## PRODUCT STRENGTHS

- High-density integration: from 1 to 6 cards
- Management of 4 to 24 channels
- Independent hot-swappable 230 VAC power supply per card

## OPERATING PRINCIPLE

The STE multi-detector card rack is a modular solution designed to centralize and optimize the management of detection loops in transport and parking infrastructures.

It enables the connection, power supply, and compact organization of multiple STE cards, thereby simplifying installation, wiring, and maintenance.

It integrates easily into cabinets or racks and provides high wiring accessibility for inputs/outputs, thanks to a backplane accessible from the front or rear.

## PRODUCT FEATURES

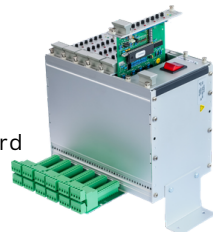
### HIGH MODULARITY

#### 41F rack versions:

- 1 to 6 STE cards + one power supply card
- 1 to 6 STE cards without power supply card

#### 21F rack versions:

- 2 cards + power supply card
- 4 cards without power supply card



## Conception

- Eurocard-format card cage for plug-in modules
- Side panels, covers and profiles made of anodized aluminum
- Card guides ensuring robust mechanical support of electronic modules
- Backplane equipped with DIN 41612 Type D connectors, enabling reliable connection and internal bus communication between cards

## I/O CONNECTIONS

### Front-oriented backplane connectors:

- Easy wiring of I/O via pluggable connectors or screw terminals
- Supports wire cross-sections up to:
  - 1.5 mm<sup>2</sup> for relay outputs
  - 2.5 mm<sup>2</sup> for loop inputs

### Rear-oriented backplane connectors:

- I/O wiring via pluggable connectors or screw terminals
- Supports wire cross-sections up to 1.5 mm<sup>2</sup>

## Power supply

### With 230 VAC power supply card:

- Provides galvanic isolation
- Equipped with an illuminated rocker switch
- Protected by a rated fuse

### Without power supply card:

Direct 24 VAC/DC supply via the backplane through a pluggable connector

## Easy installation

### Two mounting options:

- Rear-mounted L-brackets, including fixing screws (I/O accessible from the front)
- Front-mounted L-brackets, optionally with aluminum profile handles for improved integration into a card rack or controller cabinet (I/O accessible from the rear)

# TECHNICAL FEATURES

<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• Via power supply board: 230 VAC / 48–62 Hz, fuse-protected</li> <li>• Without power supply board: 24 VAC/DC</li> </ul>
<b>Tolerance</b>	<ul style="list-style-type: none"> <li>• AC: ±15% / DC: -10% / +20%</li> </ul>
<b>Consumption</b>	5VA.
<b>Operating &amp; Storage Range</b>	Storage : -40°C to +85°C    Operating : -20°C to +70°C
<b>Enclosure</b>	Anodized aluminum
<b>Dimensions</b>	<p>Model 41F:            H = 215 / D = 195 / W = 220 mm without handles, without rear brackets            H = 215 / D = 240 / W = 272 mm without handles, with rear brackets            H = 215 / D = 256 / W = 272 mm with handles, with rear brackets</p> <p>Model 21F:            H = 215 / D = 195 / W = 110 mm without handles, without rear brackets            H = 215 / D = 240 / W = 165 mm without handles, with rear brackets            H = 215 / D = 256 / W = 165 mm with handles, with rear brackets</p>
<b>Weight</b>	Models without handles: 41F: 1.6 kg, 21F: 1.1 kg
<b>Connection</b>	Screw terminals or plug-in connectors
<b>Standards</b>	Compliant with CE standards

## Preferred References

- **RAC-002-300:** Standard with rear brackets, front I/O, 21F, 230 VAC power board, NO/NF relays, screw terminals
- **RAC-004-800:** Standard with rear brackets, front I/O, 21F, without power board (24 VAC/DC), NO/NF relays, screw terminals
- **RAC-006-800:** Standard with rear brackets, front I/O, 41F, without power board (24 VAC/DC), NO/NF relays, screw terminals
- **RAC-006-300:** Standard with rear brackets, front I/O, 41F, 230 VAC power board, NO/NF relays, screw terminals

## Accessories

- **Ref.: WAB-0-026** – Aluminum profile handles
- **Ref.: WAB-0-027** – Aluminum front plates