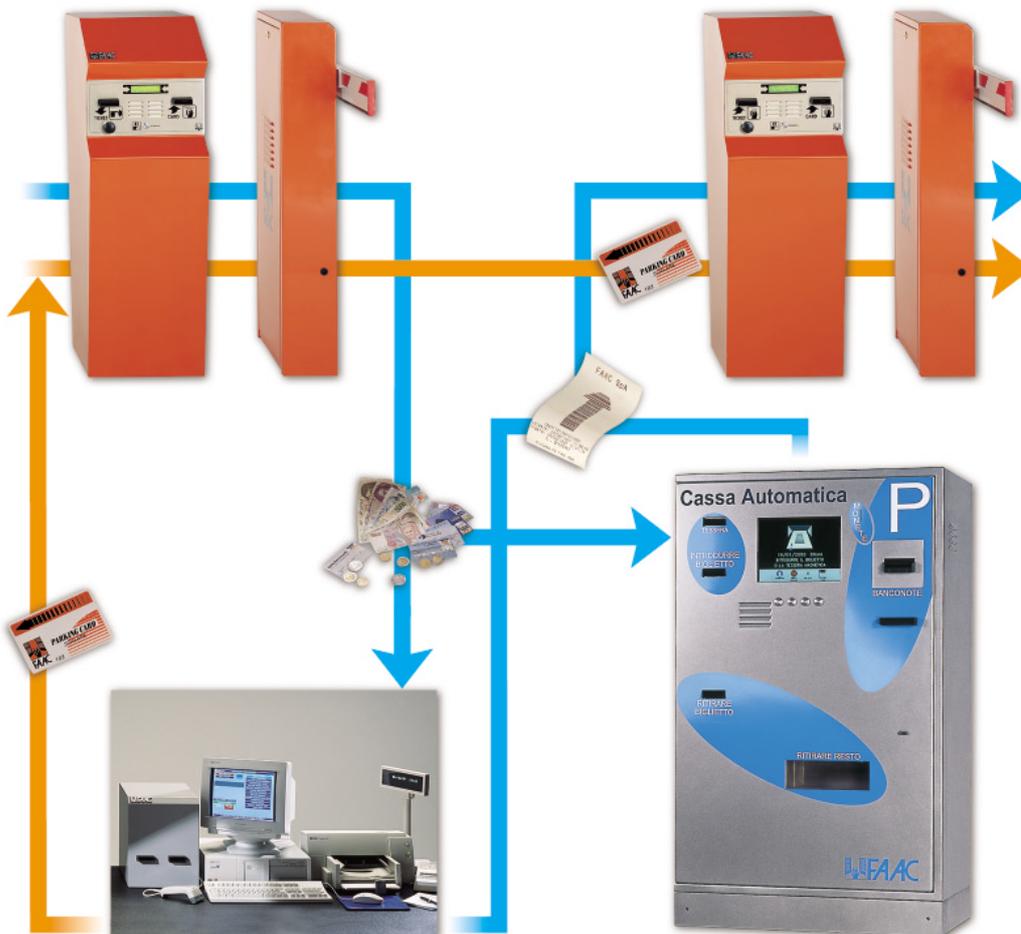


pay parking areas for managing single-stay users and magnetic card holders (remote or in-lane manned toll-booth)



■ SINGLE-STAY CLIENTS PATH
■ SUBSCRIBER CLIENTS PATH



- Management, control and signalling of occupancy status
- Entrance ticket with barcodes
- Entrance and exit columns with information display for users and intercom with call push-button
- Configuration of parking parameters and setting of tariffs from manned toll-booth/data controller
- Automatic calculation of parking fees by optical scanner reading
- Antipass-back and black-list controls
- Card coding: set-value/time expiry subscription/token/visitors and congress participants/passe-partout/operator
- Payment by cash, value coupons or credit card (optional)
- Fee collection by automatic pay-station (optional)
- Illegible or lost ticket functions
- Dispensing of exit receipt with franchise time
- Dispensing of value coupons
- Printing of statistics plus general and shift end accounting summaries
- Display of entered/present/exited vehicles, paid tickets and alarms
- Management of client details database and card archive
- Management of operator priority levels and shift changes
- Remote assistance and invoicing software (optional)
- Operating system in five languages (I-GB-F-D-ES)/non standard languages (optional)

SPECIFICATIONS

The system consists of a data controller enabling configuration of parking parameters and transmission via network to peripheral units. Peripheral units are: entrance/exit control units, manned toll-booth and automatic pay-station (optional). The standard system is completed with automatic barriers at entrance/exit, signalling devices such as "parking available/full" panel and lane traffic lights. If the lanes include pedestrian transit points, we advise installing safety photocells with FSW card.

Specifications of individual components follow

Entrance lane/s consisting of:

“Parking available /full” panel signalling the occupancy status.

- Management with CPU card (Entrance unit)
- structure in stainless steel
- plexiglas panels
- luminous, double-face
- traffic lights with two lights: one red (car park full) and one green (parking available)
- power supply: 230V/50Hz
- wall-mounted or on a support pole

BCM entrance control unit, designed for dispensing of barcoded tickets and reading of magnetic cards, it functions on the data network by means of a personal computer.

- Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
- front panel in stainless-steel equipped with ticket request push-button, ticket collection opening, magnetic card acceptance opening information display for users, and intercom device with call key
- thermostat piloted heat-ventilation device able to operate in severe weather conditions
- motorised barcoded ticket dispensing unit, fed by continuous paper strip and equipped with self-sharpening cutter
- high resolution thermal printer
- BARCODE 2/5 INTERLEAVED printing system
- ticket dimensions and weight: 86 x 60 mm - 140 gr.
- ticket dispensing capability: 3300 max per ticket roll
- ticket dispensing speed: 19/min max
- data coded on ticket: punched day/hour/minutes/seconds/ park code/ dispensing unit number/ticket type
- data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/title (3 lines)
- spare paper signal by optical sensor
- motorised card reader (front insertion)
- magnetic coding system: ISO STANDARD track 2
- information display for users LCD 16x2 characters
- SOS intercom device, with talk-listen facility and call push-button
- microprocessor controlled electronics, designed for connection to network
- operational parameters under buffer battery
- optoisolated interfacing with lane elements (traffic lights, barriers, detector)
- stand-alone operation in case of a fault on the data controller or interruption on connecting line
- vehicle presence detector, and barrier closure command
- weight: 63 kg
- power supply: 230V/50Hz
- max absorbed power: 350 W
- operating ambient temperature: -20° C + 50° C.

Lane traffic lights, to manage vehicle flow (vehicle stop or go)

- Structure in polycarbonate with two lights: red/green, 200 mm diameter
- incandescent lamps 70W/230V
- wall-mounted or on a support pole

620 Rapid barrier for parking area access control

- Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
- hydraulic automation device with control unit and plunger pistons
- balancing spring with adjustable compression
- by-pass valves for adjusting opening and closing torque
- use frequency: 100%
- opening time: 2-3 s
- cooling fan piloted by thermal probe
- travel-limit electronic deceleration
- electronic control equipment with microprocessor
- aluminium beam (max length 4 m) painted white, with red reflective strips, and impact-proof rubber profile on lower edge.
- weight: 73 kg
- power supply: 230V/50Hz
- operating ambient temperature: -20° C + 55° C
- max absorbed power: 220 W

Manned toll-booth/Data controller

Used for configuring all hardware and software parameters of the parking system, in addition to executing all payment operations.

The system's equipment:

Central unit

- HP VECTRA Pentium 133 MHz
- MS DOS operating system
- hard disk 1,2 Gb
- floppy disk 1,44 Mb 3"1/2
- 14" SVGA colour video
- standard keyboard (102 keys) - Note: Indicative values: 5 B1
- serial ports: RS 232 (No.2) - RS 422 (No.1)
- parallel ports : CENTRONICS (No.1 + No.1 optional)
- power supply: 230 V / 50 Hz

Optical scanner

- keyboard emulation CCD technology
- manual ticket processing
- powered by PC

Toll-booth module

- exit ticket dispensing
- high resolution thermal printer
- motorised barcoded ticket dispensing unit, fed by continuous paper strip and equipped with self-sharpening cutter
- BARCODE 2/5 INTERLEAVED printing system
- ticket dimensions and weight : 86 x 60 mm - 140 gr.
- ticket dispensing capability: 3300 max per ticket roll
- data coded on ticket: punched day/hour/minutes/seconds/ park code/ dispensing unit number/ticket type
- data printed on ticket: date-hour-minutes-seconds (entrance)/date-hour-minutes-seconds (payment)/amount paid
- motorised card reader (front insertion)
- magnetic coding system: ISO STANDARD track 2
- absorbed power: 40W
- power supply: 230V/50Hz
- operating ambient temperature: 0°C +45°C
- weight: 18 Kg

User display

- fluorescent technology
- 20 characters x 2 lines
- support pedestal
- absorbed power: 2W
- power supply: 24Vdc
- connection to PC via RS 232 serial port

Intercom control unit

- power supply: 230V/50Hz
- 6 user channels with selection key

Data controller software function

- configuration of system hardware parameters: type, capacity, free places, etc.
- configuration of system software parameters: tariff tables, tolerances, lists, etc.
- transmission of parameters to peripheral units: date, time, tariffs, operating mode, etc
- peripheral units alarm management
- management and monitoring of occupancy status
- management of client details database
- management of parking operator priority levels
- antipass-back and black-list controls
- printing of general and shift end accounting summaries
- printing of user movement reports

Specifications of individual components follow

Toll-booth software functions

- single-stay user payments
- illegible or lost ticket functions
- payment by cash, magnetic cards, value coupons and credit cards (optional)
- dispensing of exit receipt with franchise time
- dispensing of stay ticket and value coupon
- coding of subscription cards, set-value cards, tokens, visitors and congress participators, passe-partout
- coding of operator cards
- ticket checking and re-enabling procedures
- printing of shift end accounting summaries
- use on exit lane

Exit lane/s consisting of:

BCM exit control unit, designed for reading of barcoded tickets and reading of magnetic cards; it functions on the data network by means of a personal computer.

- Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
- front panel in stainless-steel equipped with receipt request push-button, ticket reading opening, magnetic card acceptance opening, information display for users, and intercom device with call key.
- thermostat piloted heat-ventilation device able to operate in severe weather conditions
- motorised barcoded ticket reading unit with franchise time check facility (record)
- barcode type: 2/5 INTERLEAVED
- motorised card reader (front insertion)
- magnetic coding system: ISO STANDARD track 2
- information display for users LCD 16x2 characters
- SOS intercom device, with talk-listen facility and call push-button
- microprocessor controlled electronics, designed for connection to network
- operational parameters under buffer battery
- optoisolated interfacing with lane elements (traffic lights, barriers, detector)
- stand-alone operation in case of a fault on the data controller or interruption on connecting line
- vehicle presence detector, and barrier closure command
- weight: 63 kg
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- use frequency: 100%
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