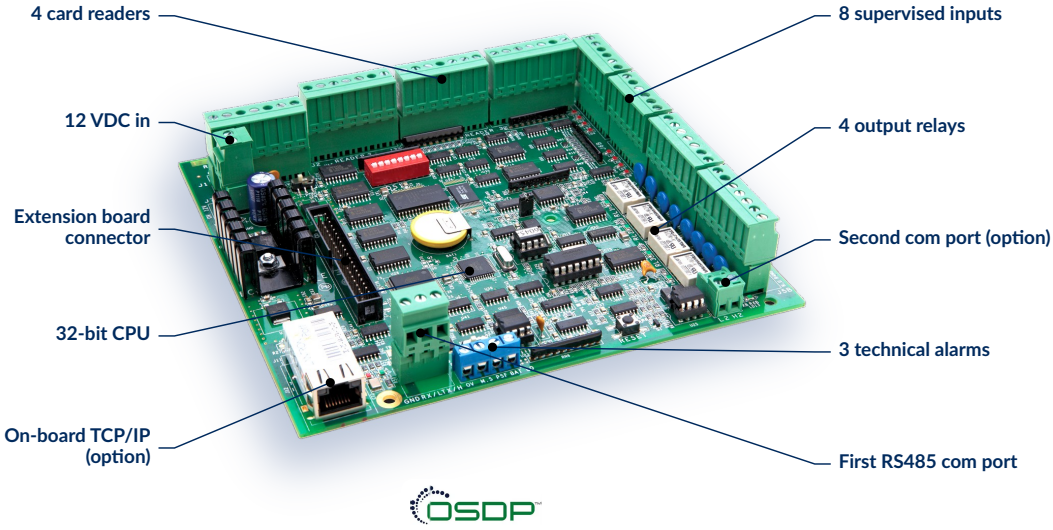
DDS
Building Security Together

JET 4-door Access & Alarm Controller

Overview

JET is the DDS flagship controller — an on-line access-control and alarm-monitoring solution, built for very large numbers of cardholders and events in memory. It supervises the entries and exits of 2 doors, or the entries or exits at 4 doors, and is OSDP compatible, so any OSDP reader can be connected in a secure mode.

- **Up to 483,300** CARDHOLDERS
- **Up to 200,000** EVENTS
- **2 / 4** DOORS
- **4** READERS
- **8 / 16 (+3)** INPUTS
- **4 / 64** OUTPUTS
- **1 + 1 (option)** COM. BUSES
- **On-board or extension board (option)** TCP/IP
- **1 + 1 (option)** PROCESSORS



Benefits

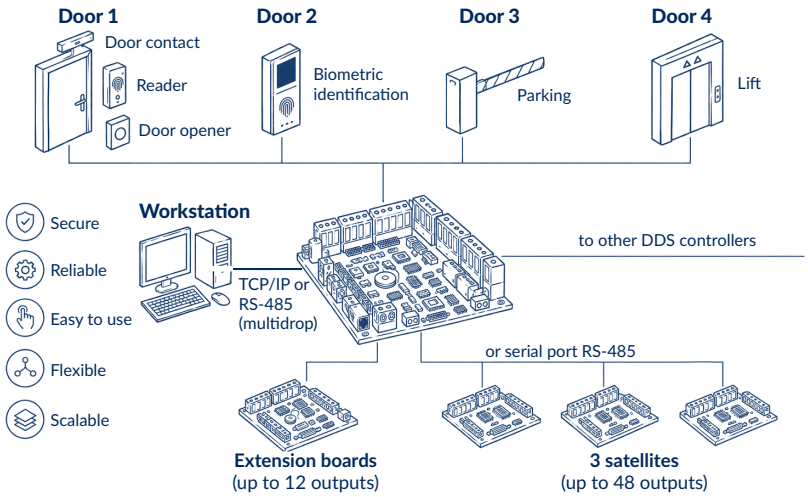
- **Dual CPUs.** The high speed CPU deals with all access control and alarm management tasks in high security installations that require very large databases. A second optional 32 bits CPU improves the controller speed.
- **High capacities** are reached according to the ROM and the dynamic allocation of the RAM between card holders and events buffer. According to the configuration, this allows getting maximal capacities of 483,000 cardholders or 200,000 events.
- **The controller's 8I/4O** (all inputs are supervised 4 states) can be extended to 16I/64O, with the addition of a plug-in extension boards and three satellites. In addition, there are three technical alarms for tamper, power supply failure and battery low.
- **Boosted reliability** through reinforced protection against lightning and shortcut.
- **Card reader detection** which can monitor card readers on-line.
- **Communication channels are multiple:**
  - Serial RS485 communication port with Rx/Tx control leds. A mini jumper allows to connect a built-in end-of-line resistor.
  - Optional second RS485 communication bus, especially developed for redundant communication, alarm event mode, global reflex without PC, global APB without PC, serial readers or satellites connection.
  - Optional TCP/IP interface available on-board or from a plug in extension, with possible AES128/256 encryption, and IEEE 802.1X (EAPOL).

JET capacities according to the RAM

RAM	JET MAX. CARDHOLDERS	JET-D4 MAX. CARDHOLDERS	MAX. EVENTS
512K	44K	32K	47K
2M	163K	120K	200K
4M	483K	257K	155K

With RAM dynamic allocation between the cardholder database and the events buffer.

Architecture



Technical specifications

Board dimensions	**175 × 160 × 20 or 32 mm**
Board weight	**270 g**
Working voltage	**12 VDC ±20 %**
Consumption, without TCP/IP	**150 mA**
Consumption, with TCP/IP	**400 mA**
Alarm input max voltage	**±30 V**
Operating temperature	**0 °C to +55 °C**
Storage temperature	**−10 °C to +65 °C**
Operational humidity	**10 to 95 % RH**

Approvals

CE RoHS compliant Pb

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Key features

DOORS, READERS & I/O

- 4-reader/2-door (JET) or 4-reader/4-door (JET-D4)
- 8 supervised inputs, extendable to 16 inputs with an extension board with control leds
- 4 relays extendable to 64 with control leds
- 3 technical alarms for tamper, power supply failure and battery low
- Reader sabotage detection
- 2 extra pins to ease door openers installation
- Multi-technology: biometric, smart card, proximity, magnetic, wireless door locks, etc

MEMORY & DATABASE

- Capacities according to the RAM — see the table opposite
- RAM protected by lithium battery for database protection during power failure

PROGRAMMING & AUTONOMY

- 255 daily programs
- 127 weekly programs
- 180 holidays and special days
- 255 reflexes (local & network)
- Global reflex and APB without PC, via the second bus of communication
- Autonomous decisions at the local level without degradation
- Polling or event driven operation

COMMUNICATION & SECURITY

- On-board serial RS485 port with control leds and an optional second port. Mini jumper to connect a built-in end-of-line resistor
- Redundant bus
- Baud rate from 9,600 to 115,200
- OSDP (plain and secure) compatible OSDP
- TCP/IP on board with AES128/256 encryption and IEEE 802.1X (option)

POWER, INSTALLATION & RELIABILITY

- Power supply 9 A, UL (optional) UL
- Removable connectors
- High reliability in adverse environments