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Data Sheet

# KT-NCC
# Network Communication Controller
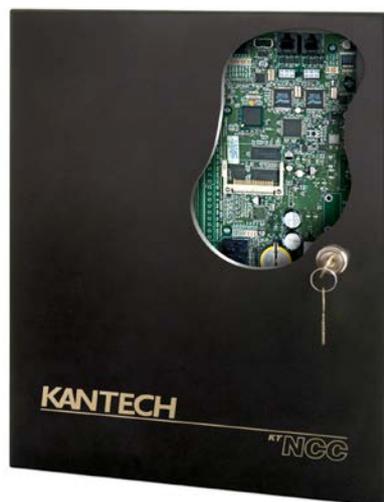


## Features That Make a Difference

- Panel architecture gives better reliability & requires less maintenance
- On-board TCP/IP
- Supports up to 128 door controllers
- Embedded redundancy
- Seven LED modes provide system status
- Flash memory allows firmware to be updated quickly and conveniently
- Battery backup provides alternative for Universal Power Supply (UPS)
- Global functionality such as anti-passback, guard tours, and alarm systems management is easier than ever to implement

## Managing Controllers for Enterprise Solutions

The KT-NCC manages communication from the EntraPass Global Edition security management software to the door controllers. It also controls features/ functions such as areas, alarm systems, global I/O, guard tours, and secondary access levels. It makes the access control system easier to manage, easier to expand, and much more reliable. The KT-NCC is in control instead of relying on a PC for controller-server communication.

KT-NCC includes onboard TCP/IP that eliminates the costs associated with buying and maintaining a third party communication device to link to the network.

KT-NCC easily communicates with any Kantech controller (KT-100, KT-300 or KT-400), making it a very powerful way to expand an EntraPass Global Edition system.

Redundant communication paths ensure that, should communication to the main EntraPass server fail, KT-NCC will automatically connect to the EntraPass redundancy server. This safeguards important security data and ensures business continuity.

Further extending its ease of use, KT-NCC panels come equipped with LEDs that provide the user with an easy way to quickly assess system status.

New functionality is easily flashed to KT-NCC controllers from the EntraPass server. This saves an enormous amount of time because you don't have to manually update each controller and ensures that you can take advantage of new features and functionality immediately.

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# System Diagram



**EntraPass Global Server** — KT-NCC — *IP and RS-232 to RS-485 — Door Readers — Controllers — Expansion Modules — Request-To-Exit Detector
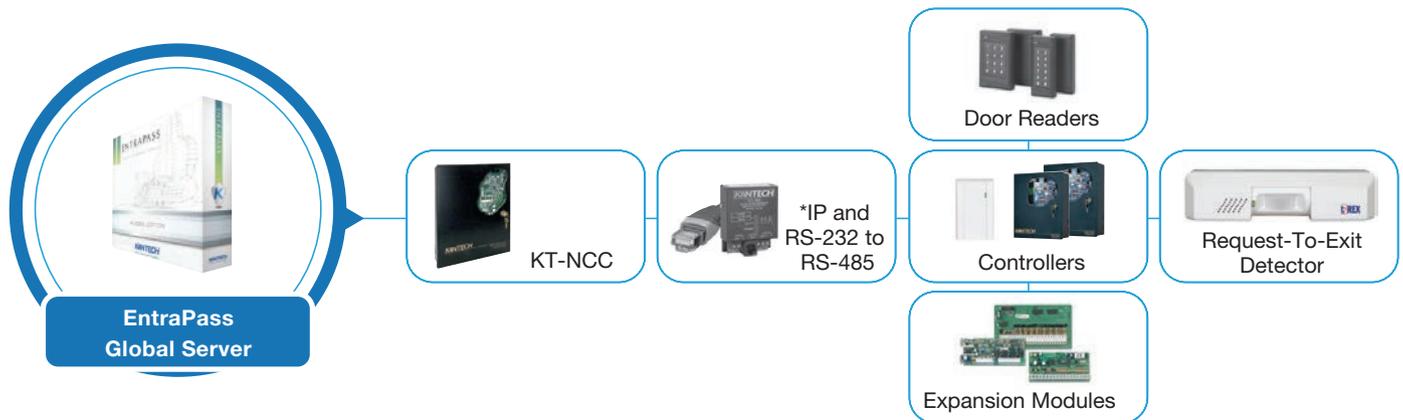
*Note – IP requires UDS1100 serial Ethernet converter for Ethernet connection to the controller

# Specifications

| Physical | |
|---|---|
| Cabinet Dimensions (H × W × D) | 37.6 x 30.5 x 12.6 cm (14.8 × 12 × 4.95 in) |
| Cabinet Weight | 4.0 kg (8.8 lbs) |
| Board Dimensions (H × W × D) | 22.90 × 13.98 × 5.20 cm (9 × 5.5 × 2.05 in) |
| Communication Ports | 2 x RS-485<br>1 x RS-232<br>2 x Ethernet 100Base-T |
| **Environmental** | |
| Operating Temperature | 2° to 40°C (35° to 110°F) |
| Humidity Level | 0 to 95% non-condensed, indoor use only |
| **Electrical** | |
| AC Power | 16 VAC, 40 VA Class 2 transformer (TR1640P/UL or TR1640P/CSA) |
| Battery Backup | KT-BATT-12, 12V/7Ah battery supervised, provides a minimum of four hours |
| Auxiliary Power Output | 12 VDC, 250 mA, resettable fuse protected |
| **Operational** | |
| Firmware Flash Memory | 16 MB |
| Loops per Gateway | Seven loops (2 x RS-485, 1 x RS-232, 4 x IP) |
| Controllers per KT-NCC | 128 |
| Controllers per Loop | RS-485 (COM1 & COM2) = 32 each<br>RS-232 = 32 each<br>IP#1 to IP#4 = 8 each |
| Number of Cards per KT-NCC | 56,000 |
| Readers/Keypads per KT-NCC | 256 (KT-300), 512 (KT-400) |
| Door Lock Outputs per KT-NCC | 256 (KT-300), 512 (KT-400) |
| Maximum Number of Floors | 64 |
| Schedules | 100 |
| Access Levels | 250 |

| | |
|---|---|
| Access Door Groups | 100 |
| Relay Groups | 100 |
| SDRAM Memory | 64 MB (protected by a Lithium ION battery for a minimum of 75 hrs) |
| Relays | Four Form C relays, 30 VDC/3A |
| Controller Groups | 100 |
| Access Level Groups | 100 |
| Operating System | Windows® CE embedded v5.0 |
| **Regulatory** | |
| Compliance | FCC Part 15 Class A, CE, C-Tick |
| Certifications | UL 294, UL 1076 |
| Environmental | RoHS, WEEE |

## Ordering Information

| Model Number | Description |
|---|---|
| KT-NCC | KT-NCC PCB, accessory kit, metal cabinet with lock, tamper switch |
| KT-NCC-PCB | KT-NCC PCB, accessory kit |
| KT-NCC-ACC | Accessory Kit: RS-232 to VC-485 flat cable with RJ-12 connectors |
| KT-NCC-CAB | Black metal cabinet with lock and keys |
| KT-TAMPER | Tamper switch |
| KT-LOCK | Cabinet lock and 2 keys |

## About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

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