



Note: North America model shown

## KT-NCC

### Network Communication Controller

#### Features That Make a Difference:

- Powerful panel architecture removes a layer of PCs to improve reliability and save money
- Onboard TCP/IP eliminates the need for an external network communication device
- Supports any combination of up to 128 controllers (KT-100, KT-200, KT-300, or KT-400)
- Embedded redundancy ensures critical data is always protected
- Seven LED modes provide quick assessment of system status
- Flashable firmware enables fast, convenient updates
- 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

Kantech™ KT-NCC makes your access control system easier to manage, easier to expand, and much more reliable. Now, instead of relying on a PC for communication between the controllers and server, the dependable KT-NCC is in control. There are fewer PCs to maintain, operating systems to upgrade, and security emergencies to manage.

KT-NCC includes onboard TCP/IP, a great money-saving feature, 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 of the controllers in the Kantech portfolio, 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.

KT-NCC uses a 12V/7Ah battery which provides a minimum of four hours of backup to ensure continual operation and prevents runtime data and global functionality from being lost due to complete power failure.

Moving global functionality, such as anti-passback, guard tours, and alarm systems management from the PC to the KT-NCC panel enhances overall performance.

### Physical

Cabinet Dimensions (H x W x D)	375.9 x 304.8 x 125.7 mm (14.8 x 12 x 4.95 in)
Cabinet Weight	4.0 kg (8.8 lbs)
Board Dimensions (H x W x D)	22.90 x 13.98 x 5.20 cm (9 x 5.5 x 2.05 in)
Communication Ports	2 x RS-485 1 x RS-232 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 RS-232 = 32 each IP#1 to IP#4 = 8 each
Number of Cards per KT-NCC	56,000
Readers/Keypads per KT-NCC	256
Door Lock Outputs per KT-NCC	256
Maximum Number of Floors	64
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

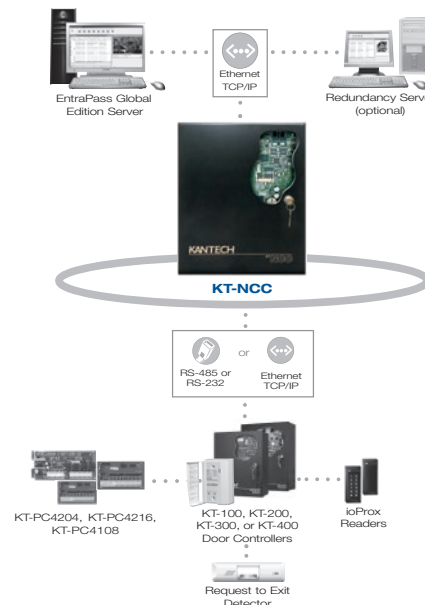
### Model Numbers

KT-NCC	Embedded Network Communication Controller (NCC), includes: black metal cabinet (KT-NCC-CAB) and accessory kit (KT-NCC-ACC) with lock (KT-LOCK) and tamper switch (KT-TAMPER), compatible with EntraPass Global Edition v3.18 and higher
KT-NCC-PCB	Embedded NCC PCB only, includes: accessory kit (KT-NCC-ACC), battery and ground cables, hardware to affix the wire, and the PCB
KT-NCC-ACC	Accessory kit for KT-NCC, includes: four 120 ohms end-of-line resistors, RS-232 to VC-485 flat cable with RJ-12 male connectors, and screwdriver
KT-NCC-CAB	Black metal cabinet for KT-NCC, includes: KT-LOCK and ground cable
KT-LOCK	Lock for KT-NCC-CAB, KT-300CAB, and KT-4051CAB metal cabinets, and two keys
KT-TAMPER	Tamper switch for KT-NCC-CAB, KT-300CAB, and KT-4051CAB metal cabinets

### Europe Only

KT-NCC-EU	Embedded Network Communication Controller (NCC), includes: black metal cabinet (KT-NCC-CAB) with transformer (240VAC/50Hz, 16.5VAC/40VA) and fuse block (315mA/240VAC) and accessory kit (KT-NCC-ACC) with lock (KT-LOCK) and tamper switch (KT-TAMPER); compatible with EntraPass Global Edition v3.18 and higher
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### Network Architecture



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