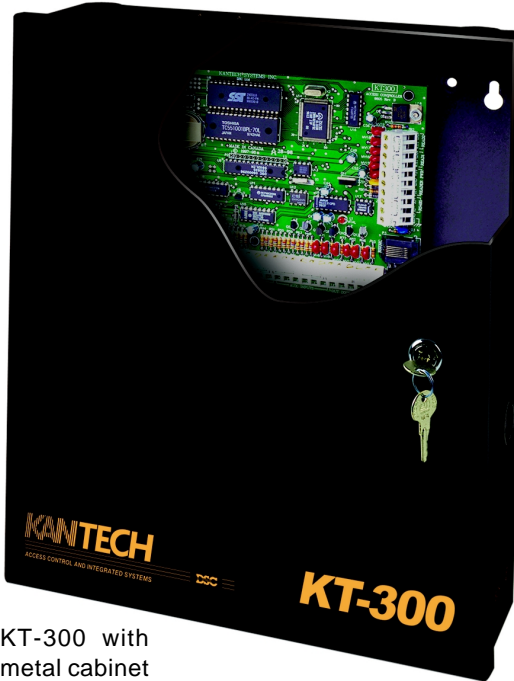


### The KT-300 Controller



KT-300 with  
metal cabinet

### Features

- **Update Firmware Directly from System Workstation**
- **Fast! Up to 115,200 Baud**
- **Ready to Go! No Dip Switches or Jumpers to Set!**
- **5V and 12V Reader Power**
- **Input and Output Expansion Modules**

### Innovative and Powerful

The KT-300 is designed to meet the highest standards of access control and point monitoring applications.

The KT-300 controls 2 doors and is easily linked to a network controlling thousands of doors.

### Downloadable Firmware

The firmware program is stored in the controller's Flash memory and can be uploaded from any workstation.

### Fast! Up to 115,200 Baud

The KT-300 automatically detects the communication speed as set at the system's workstation.

### Trouble and Reporting

The KT-300 constantly supervises battery conditions and reports "Low battery" or "No battery" status to the system.

All power outputs are supervised and individually protected against short circuits and surges, by a self-resetting PTC. Locking devices are also supervised for short and open circuits.

### Built-in Combus Expansion

The KT-300 supports expansion modules to add inputs, outputs and an LCD time and date display for Time and Attendance functions.

## Ordering Information

<b>KT-300/128k</b> .....	Door controller with 128kB memory including KT-300CAB, KT-300ACC and KT-300LOCK
<b>KT-300/512k</b> .....	Door controller with 512kB memory including KT-300CAB, KT-300ACC and KT-300LOCK
<b>KT-300PCB/128k</b> .....	KT-300/128kB PCB only and KT-300ACC kit
<b>KT-300PCB/512k</b> .....	KT-300/512kB PCB only and KT-300ACC kit
<b>KT-300ACC</b> .....	Accessory kit including: 2x1.0K ohm, 10x5.6K ohm, 2x120 ohm, PCB standoffs, lock hole cover, ground wire and screwdriver
<b>KT-PC4108</b> .....	8-zone input expansion module for KT-300
<b>KT-PC4204</b> .....	4-relay and Combus additional power supply module for KT-300
<b>KT-PC4216</b> .....	16-output expansion module for KT-300
<b>KT-RM1</b> .....	External isolation relay SPDT for KT-300 outputs controlled by relays (RL1 & RL2)
<b>KT-LCD4501</b> .....	LCD time & date display for KT-300
<b>KT-300CAB</b> .....	KT-300 black metal cabinet including KT-300LOCK
<b>KT-4051CAB</b> .....	Standard black metal cabinet for KT-PCxxxx modules (order keylock separately) 42.7 H x 26.4 W x 14.4 D cm. (16-13/16" x 10-3/8" x 4-1/8") - EMT 1.9cm (3/4")
<b>KT-300LOCK</b> .....	Keylock for KT-300CAB/KT-4051CAB metal cabinet (2 keys/same as KT-200)
<b>KT-300TAMP</b> .....	Tamper switch for KT-300CAB or KT-4051CAB metal cabinet
<b>TR1637W/CSA</b> .....	Transformer, Wire-In, 110V/16V (37VA) CSA
<b>TR1640P/CSA</b> .....	Transformer, Plug-In, 110V/16V (40VA) CSA
<b>TR1640P/UL</b> .....	Transformer, Plug-In, 110V/16V (40VA) UL
<b>TR1640W-220</b> .....	Transformer, Wire-In, 220V/16V (40VA) CE

## Expansion Modules Specifications

**KT-PC4108:** 8-zone input module. Current draw: 30mA (from Combus). Aux. power 12VDC, 250mA max., drawn from Combus. Tamper contact input. (UL, CE, FCC)

**KT-PC4204:** 4-relay and Combus additional power supply module. Current draw: 30mA (from Combus). 40VA, 16VAC Transformer required, max 12V 7Ah battery required. Four programmable relay form C contacts rated 2A. Tamper contact input. (UL, CE, FCC)

**KT-PC4216:** 16-output module. Current draw 15mA from Combus. Output 12VDC, 50mA max. each, power drawn from Combus. Tamper contact input. (UL, CE, FCC)

**KT-LCD4501:** LCD time and date display for Time and Attendance. Current draw: 50mA (from Combus). (UL, CE, FCC)

## Technical Specifications

<b>AC power</b>	16VAC, 40VA, class 2 transformer
<b>Battery backup</b>	1 battery 12V, 7Ah, supervised, provides operation for up to 12 hours
<b>Cabinet measurements</b>	29.9cm H x 28.8cm W x 7.7cm D (11-3/4" x 11-3/8" x 3") EMT 1.9cm (3/4")
<b>Weight (with cabinet)</b>	2.4 kg (5.4 lbs)
<b>Operating temperatures</b>	From 2°C to 40°C (35°F to 110°F)
<b>Reader types</b>	Wiegand, proximity, bar code, magnetic, integrated keypad and others
<b>Monitored points (inputs)</b>	8 monitored points, NO/NC, with or without end of line resistors (expandable to 16)
<b>Points maximum wiring</b>	600 meters (2,000 feet) – (AWG #22)
<b>Door strike power</b>	12VDC, 250mA each, supervised
<b>Auxiliary outputs (LED, BUZ)</b>	4 outputs, 25mA max each Open collector
<b>Outputs controlled by relays (RL1, RL2)</b>	2 control relay outputs, 25mA max each Open collector (Optional KT-RM1 available)
<b>Auxiliary power output</b>	12VDC @ 125mA max, protected and supervised
<b>Reader power outputs</b>	12VDC and 5VDC @ 175mA total protected and supervised
<b>Communication ports</b>	RS232, RS485 and Combus
<b>Communication speed</b>	Up to 115,200 baud (automatic detection)
<b>Firmware Flash memory</b>	128k
<b>RAM memory</b>	128k (512k unit available). Protected by a lithium battery
<b>Network autonomy</b>	Distributed data and processing
<b>Certifications</b>	UL294, CE, FCC

## KT-300 Device Schematics

