



Application CONTROLLER

- **Capacity:** can manage over one million credentials
- **Flexibility:** available in plastic or secure metal housing
- **Power:** 1GHz ARM cortex microprocessor

Enterprise solution for distributed control



WHO SHOULD USE THE APPLICATION CONTROLLER?

The application controller is ideal for large sites, or centralised sites with multiple buildings. The unit has been specially designed to operate with Access Portal software, and manage the high volume of controllers and users typically found on such sites.

PRODUCT BENEFITS:

- Manages up to 64 controllers, for a high level of flexibility and control
- Metal housing comes standard with built-in power supply and space for a backup battery
- Increases the capacity of the access control system – more events, actions and rules
- Variety of ports to manage and control other devices

The application controller is an extension of the Access Portal hardware range, which is specifically designed for large sites, or sites with multiple buildings.

The unit is able to provide unrivalled high capacity offline functionality. In the event of connection being lost to the server, the application controller is able to maintain an onboard transaction log of up to one million transactions. Once back online, the system automatically synchronises these actions to the server, to ensure a full audit trail and log.

Further, the application controller provides distributed control through its ability to manage up to 64 cluster controllers and multiple zones, for enhanced security and redundancy as the risk of a single point of failure is removed.

Increased capacity

The true power of the application controller can be seen in the increased capacity it enables onsite. Without an application controller, you can be limited to 100,000 credentials – with the device, over one million.

The actions per event are also increased from 25 to 128, whilst access groups per person move from 10 to 255, all through the use of a single application controller.

Housing options

As each installation is unique, the application controller is available in two variants. The smaller footprint plastic housing, or a robust metal enclosure which comes prewired with a switch-mode power supply and capacity for a backup battery.

Remote uploads

A significant feature of the application controller is the ability to undertake full uploads on site, without downtime, due to the powerful computing abilities of the device. This reduces potential security risks, whilst also ensuring greater convenience for site maintenance.

Specifications

APPLICATION CONTROLLER

Model name	Application controller (plastic)	Application controller (IPS)
Part number(s)	HCA910	HCA930
Product description	Application controller in plastic housing	Application controller in metal IPS box
Colour	Black	
Dimensions (d-w-h)	5.6cm x 17cm x 12.9cm [2.2" x 6.69" x 5.08"]	8.2cm x 38.3cm x 31.3cm [3.22" x 15.1" x 12.3"]
Approximate product weight	295g [10.4 oz.]	3.8kg [8.38 lb]
Material	ABS plastic	Powder-coated metal box
Electrical specifications		
Input voltage	10 to 15V DC	90 V AC to 240 V AC at 50/60 Hz
Power requirements	2W at 10V DC ; 2.25W at 15V DC	N/A
Output voltage	N/A	13.8V DC
Power output rating	N/A	75W
Power input protection	Reverse polarity on DC power inputs, over-voltage & over-current protection provided	
Connectivity		
Ethernet	TCP-IP 10Mbps/100Mbps	
USB	2 x USB 2.0 ports	
RS485	1 x device port	
System specifications		
Processor	AM335x ARM Cortex-A8 1GHz with VFP & NEON floating-point accelerators	
Non-volatile memory	16 GB microSD card, Class 4	
On-board memory	4 GB On-board EMMC	
RAM	512 MB DDR3	
Operating system	Linux Debian 9	
General		
Anti-tamper Protection	PCB mounted switch	Panel mounted limit switch
Real Time Clock Battery (RTC)	1 x 3V, CR2032, Lithium cell battery	
Power indicator	Red LED (internally visible)	
Ethernet diagnostic indicators	Link speed , Link active - red LED's	
CPU diagnostic indicators	CPU Usage - red LED, CPU running - green LED	
Environmental specifications		
Operating temperature	-10°C to +50°C [+14°F to 122°F]	
Storage temperature	-15°C to +50°C [+5°F to 122°F]	
Operating humidity	0 to 95% relative humidity at 40°C [104°F] non-condensing	
Environmental rating	designed to work indoor (dry) environment similar to IP20	
Certifications		
CE (EU)	Pending	
SABS (RSA)	Pending	
RoHS	✓	



Impro Technologies
has over 30 years' experience
in the access control industry

HQ tel: +27 (31) 717 0700
Email: info@impro.net
Web: www.impro.net