



Cluster **CONTROLLER**

- Unrivalled simplicity: true plug-and play modular hardware
- On-board intelligence: full off-line functionality
- Integration: operates with a host of third party products
- **Backwards compatible:** for seamless upgrading and integration



TRULY VERSATILE ACCESS CONTROLLER MODULE

This unit is the cornerstone of our Access Portal access control solution, offering you:

- Simplified installations
- Plug-and-play clustering
- Powerful offline operation
- Processing power to control up to 64 readers
- Switch between four modes of operation through the dip-switch

OTHER FEATURES:

- Anti-tamper switch
- 8 LED diagnostic indicators
- S-Bus port to connect cluster modules up to 150m away
- RS485 and TCP/IP connection options

The Access Portal cluster controller module brings an unrivalled simplicity to the installation of an access control solution

True plug-and-play

Modular hardware means you simply plug in more units to expand your installation - making it very easy to adapt the system to suit your changing needs. The clustering concept is also highly cost effective as one cluster controller can manage up to 8 reader modules, giving you up to 16 readers from just one controller.

However, the modules don't have to be plugged together. You can connect using S-Bus which allows you to connect a module up to 150 metres from the controller – that's the length of one and a half rugby fields.

On-board intelligence

The controller enables full off-line functionality in the event of a power failure and each cluster controller can store up to 100,000 transactions.

Stand-alone system

With the flick of a dipswitch, the cluster controller can be configured as a

complete stand-alone access control system. When selecting a cluster controller in Lite mode, there is no need for additional software or even a computer. The controller contains an embedded web server, and manages up to 16 doors.

World of choice

The unit is available housed either in plastic or a secure metal IPS enclosure. The cluster controller can be connected to the internet and configured through a browser to enable you to access your site through any HTML5 device, such as a smart phone, tablet or laptop.

In addition, the cluster controller comes with a variety of modules, which simply clip together, depending on your application:

- Wiegand reader module
- Antenna reader module
- S-Series reader module
- IO8 module



Specifications **CLUSTER CONTROLLER**

Model name	Cluster Controller	Cluster Controller for IPS
Part number(s)	HCM 940	HCM941
Product description	Cluster controller unit without LCD	IPS Cluster controller unit
Colour	Black	Uncovered PCB board
LCD	-	-
Enrollment	-	-
Interface in Lite mode	Web based URL	Web based URL
Dimensions (d-w-h)	18.6cm x 9.9cm x 5.7cm 7.3" x 3.9" x 2.3"	8.2cm x 38cm x 31cm 3.2" x 15" x 12.2"
Approximate product weight	211 g (10.5 oz)	5.45 kg (12 lb)
Material	ABS plastic	N/A
	Electrical specifications	
Input voltage	12 - 15 VDC polarity sensitive	
Power requirements at 12 VDC	140 mA current 1.7 W power	
Power input protection	Reverse polarity, over current and transient voltage protection	
	System specifications	
Processor	32-bit ARM Cortex M3 operating at 180MHz	
Memory	200 KB RAM, 16 MB Flash Memory	
	Other specifications	
Tag functionality	10,000	
Buffered transfers	100,000	
RTC	1 x 3 V, CR2032 Lithium cell battery. 2 yrs operating life, 5 yrs storage life	
	Card compatibility	
Туре	Mifare iClass HID H1021, H10302 and H10304 HiTag	Impro 125kHz and 13.56MHz slim tag, omega tag, quad transmitter-
Туре	PCB mounted switch	IPS mounted switch
Operating temperature	-25° to +60° C [-13° to +140° F]	
Storage temperature	-40° to +80° C [-40° to +176° F]	
Operating humidity	0 to 75% relative humidity non-condensing (at +40° C / +104° F)	
Environmental rating	IP20	
111 (125)	Certifications	
UL (US)	On request	
CE (EU)	<u> </u>	
SABS (RSA)	<u> </u>	
RoHS	<u>✓</u>	

HQ tel: +27 (31) 717 0700

Email: info@impro.net Web: www.impro.net