

# PW7000-SERIES

## Controllers and I/O Boards

The PW7000-Series Access Control System is an advanced access control hardware architecture capable of providing solutions for large enterprise applications.

The Intelligent Controllers provide power and flexibility with an embedded Linux OS, improved processor and increased memory as well as onboard crypto chip which adds an additional layer of security to sensitive data.

The PW-series controllers support a combination of I/O and reader boards to monitor alarm input points, relay output points and interface with access control readers. By offering a modular design, the system can be tailored to meet a wide range of applications while optimizing cost and installation.

The PW7K1IC comes with 2 on-board reader ports that support multiple reader communication protocols including Wiegand and OSDP (V2) Secure Channel Protocol (SCP). OSDP SCP is now supported across all the intelligent controller and reader board hardware. PW7000-series control panels and I/O boards are backwards compatible with PW6000-Series\*.



PW7000-Series Access Control System.

## FEATURES AND BENEFITS



### SECURE

- Latest encryption standard support with TLS1.2 and OSDP (V2) Secure Channel Protocol
- Embedded Crypto Memory Chip to protect sensitive data



### VERSATILE

- Backwards compatible with PW6000\* controllers, reader boards, I/O boards and enclosures\*
- On-board support for up to 2 readers (2 Doors) for PW7K1IC and up to 2 readers (1 Door) for PW7K1ICE



### COMPREHENSIVE

- Wide variety of native integrations including wireless locks
- Extensive customization including If / Then macro capabilities



### ADAPTABLE

- Modular design allows controllers and downstream boards to be mixed to fit the most demanding customer requirements
- Flexible power options for PW7K1ICE & PW7K1R1E including PoE and PoE+

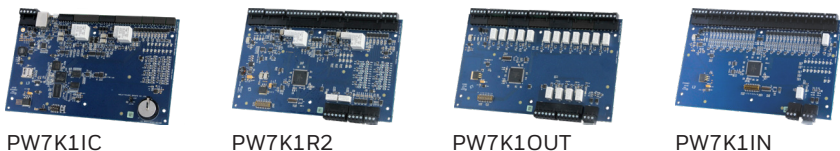
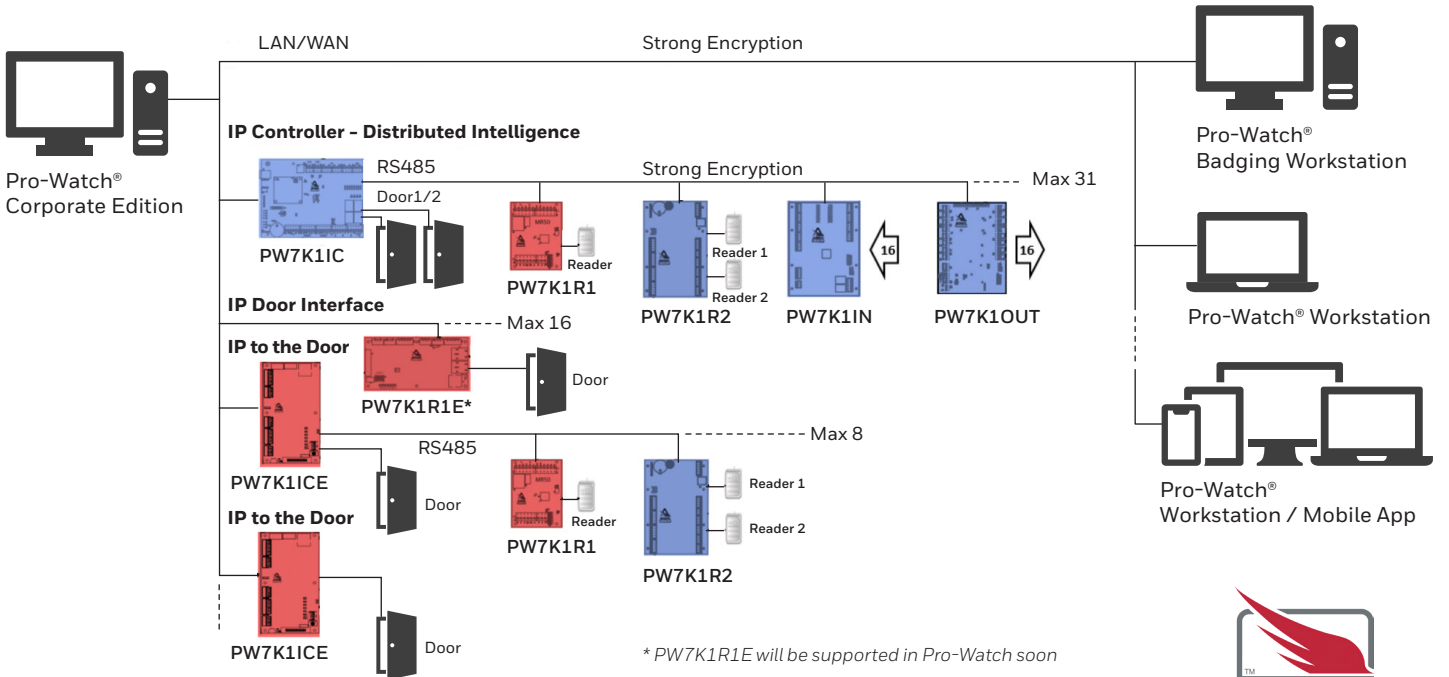
\* Note: PW6K1IC board is based on Mercury's EP2500, PW7K1IC board is based on Mercury's LP1502 and includes extra reader/door connections. PW7K1IC board has 1 RS485 downstream bus. All Honeywell PW7000 Form Factor and Honeywell branded Mercury boards are backwards compatible with existing PW5000/PW6000 Enclosures.

# SPECIFICATIONS

DESCRIPTION	PW7K1IC	PW7K1ICE	PW7K1R1	PW7K1R1E	PW7K1R2	PW7K1IN	PW7K1OUT
Maximum # of Doors	**64	**17	1	2	2		
Maximum # of Readers On-board	2(*4)	2(*2)	1(*2)	(4) OSDP Only	2(*4)		
Maximum # of Cardholders	240,000	240,000					
Transaction Storage	50,000	50,000					
Access Levels per Cardholder	255	255					
On-board Inputs	8	2	2	6	8	16	2 (Pwr Fail+Tmp)
On-board Outputs	4	2	2	4	6	2	16
IP Protocol	ipv4 / ipv6	ipv4 / ipv6		ipv4 / ipv6			
OSDP(V2) SCP On-board	Yes	Yes	Yes	Yes	Yes		
Host Communication	10/100Mbps TLS1.2	10/100Mbps TLS1.2		10/100Mbps TLS1.2			
Primary Power	12 VDC 500mA max	PoE / PoE+ 12VDC 1.8A max	12-24 VDC 150mA max	PoE / PoE+ 12VDC 1.7A max	12-24 VDC 650mA max	12-24 VDC 250mA max	12-24 VDC 385A max
Operating Temperature	0-49 °C	0-49 °C	0-49 °C	0-49 °C	0-49 °C	0-49 °C	0-49 °C
Operating Humidity	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC
Dimensions (H x W x D)	9.0" x 5.5" x 1.0" 230 x 140 x 25mm	5.5" x 2.75" x 1.0" 140 x 70 x 25mm	2.75" x 4.25" x 1.0" 70 x 108 x 25mm	5.5" x 2.75" x 1.0" 140 x 70 x 24mm	9.0" x 5.5" x 1.0" 230 x 140 x 25mm	9.0" x 5.5" x 1.0" 230 x 140 x 25mm	9.0" x 5.5" x 1.0" 230 x 140 x 25mm
Compliance	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC
Warranty	1 year	1 year	1 year	1 year	1 year	1 year	1 year

\*Note: Multi-dropped OSDP Readers (when supported) \*\*Including Sub-panels

# CONFIGURATION



# FUNCTIONAL DESCRIPTION

The multi-port PW7K1IC is a dual card reader panel for controlling two connected doors and managing up to 64 doors/ openings. Built with Authentic Mercury Technology (LP1502), the intelligent controller uses on-board Ethernet port to connect to the Honeywell server-based platform 'Pro-Watch'.

The intelligent controller performs access control, alarm management and scheduled operations, all in single package. With native connectivity\* the high-performance PW7K1IC functions independently of the host for performing numerous access control applications and supports OSDP, OSDP Secure

Channel, keypads, biometric readers, Wiegand and clock and data. F/2F and supervised F/2F reader technologies are coming soon.

System configuration and setup are provided through Mercury software applications/tools. For a comprehensive and open Honeywell access control platform, and a reliable hardware platform running in a secure environment, the PW7K1IC is the clear solution. It delivers a complete security and access control solution as well as innovative application extensions, interoperability and data security.

## ORDERING

PW-7000 INTELLIGENT CONTROL SYSTEM	
PART NUMBER	DESCRIPTION
PW7K1IC	PW-7000 Intelligent Controller – Capacity for 32 I/O or Reader Boards
PW7K1IN	PW-7000 16 Input Module
PW7K1OUT	PW-7000 16 Relay Output Module
PW7K1R1	PW-7000 Single Reader Module (only for use in PW5K1ENC4)
PW7K1R2	PW-7000 Dual Reader Module
PW5K1MX8	PW-Series 8-Port Multiplexer
PW-7101 INTELLIGENT CONTROL SYSTEM	
PART NUMBER	DESCRIPTION
PW7K1ICE	PW-7101 Intelligent IP Access Controller
PW7K1R1E	PW-7101 IP Door Reader Module (1 Door)
HARDWARE	
PART NUMBER	DESCRIPTION
PW7KRD4	PW7K hardware add on kit - 4DR
PW7KRD2	PW7K hardware add on kit - 2DR
PW7KRD8	PW7K hardware add on kit - 8DR
PW7KTD2	PW7K hardware add on kit - 2DR T-Mount
ENCLOSURES AND ACCESSORIES	
PART NUMBER	DESCRIPTION
PW5K2ENC1	PW-Series high density enclosure (power supply and battery not included)
PW5K2ENC2	PW-Series high density enclosure for 19" rack installations (power supply and battery not included)
PW7KPSU120	PW-Series 110 VAC, 4 amp power supply for PW5K2ENC1 and PW5K2ENC2 enclosures
PW5K1ENC3	PW-Series remote enclosure with plug-in with 110V transformer/power supply
PW5K1ENC4	Single reader enclosure (for use with PW7K1R1)
PW5K1DCC	PW-Series daisy chain cable

### Honeywell Commercial Security

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