

Distributed Controller (iTRT2-EL)

ELECTRIC LOCK SUPPORT MODEL

- **Versatile:** variants for indoor and outdoor use
- **Compatibility:** support for OSDP and legacy Wiegand readers
- **Simplicity:** available in 3 variants for ease of installation options
- **Interoperability:** compatible and integrated with Impro solutions
- **Feature:** Support for Assa Abloy's Electric Lock product range

Distributed Controller

For Integrated ASSA ABLOY Electric Locks



WHO SHOULD USE THE iTRT2-EL?

The range is ideal for most applications, whether new installations or retrofit when used in conjunction with Assa Abloy Electric Locks.

PRODUCT BENEFITS:

- **Scalable controller options**
- **Versatile installation options**
- **Zero down-time firmware upgrades**
- **OSDP and Wiegand support**
- **Communication distance of 150m for Wiegand and 1000m for OSDP**
- **Offline validation**
- **Tamper protection**
- **Support for up to 2 doors with 4 inputs and 2 relay outputs.**
- **Auxiliary 3rd relay**

The Distributed Controller (iTRT2-EL) is a multifunction scalable controller.

It can be used as a door controller, an embedded Lite controller or full function system controller all at the flick of a switch.

It is equipped with a reader input which features the latest secure OSDP interface for 2 supported readers or a single Wiegand input with 4 inputs and 3 controllable relays. These readers can be used for relaxed and full anti-pass (APB) access on a single door with 2 OSDP readers, or single entry using the Wiegand input only. All inputs are also secure with end of line sensing (EOL). Legacy Wiegand readers are also supported.

Support for the RF transmitter and receivers has been maintained.

The two independent 10A single-pole, double throw (SPDT) relays allow for interfacing to door strikes, magnetic locks, and other 3rd party device such as alarm panels or lighting. An Auxiliary 3rd relay has been added for additional control and is currently reserved for future use on Access Portal software.

The iTRT2-EL can store up to 10k credentials and 100k buffered transactions per channel, whilst also providing offline validation

The iTRT2-EL is equipped with 22 LED diagnostic indicators which provides a comprehensive onsite interface, whilst the software allows for remote upgrading with zero down-time.

The iTRT2-EL supports Assa Abloy Electric Lock Models, EL560/1 and EL520.

The product is available in two housing options, an ABS plastic module (in production) or metal enclosure (in development) with built in integrated power supply (IPS) or PoE module. The PoE module is a Class 4 PoE injector.

Connectivity to the Access Portal system controller is achieved via RS-485 or ethernet. Access Portal Pro mode will allow the iTRT2-EL to handle up to 64 fixed addresses comprising of the onboard reader interfaces and the daisy-chained door controllers on the RS-485 bus.

Specifications

Distributed Controller (iTRT2-EL)

Model name	iTRT2-EL (Plastic Module)	iTRT2-EL IPS (Future Development)	iTRT2-EL PoE (Future Development)
Part number(s)	HCD910	HCD911/2	HCD913
Product description	iTRT2-EL plastic module	iTRT2-EL in steel enclosure with IPS	iTRT2-EL in steel housing with PoE
Colour	Grey	Black	Black
Dimensions (d-w-h)	164mm x 140mm x 28mm	8.2cm x 38.3cm x 31.3cm	8.2cm x 38.3cm x 31.3cm
Approximate product weight	0.35kg	3.60kg	3.60kg
Material	PC Plastic	Mild Steel housing	Mild Steel housing
	Electrical Specifications		
Input voltage	12V	100-230Vac with terminal block or IEC320	802.15.4bt compliant
Power requirements at 12 VDC	120mA	120mA	120mA
Relays off			
Relay power requirements at 12VDC	0.45W/Relay	0.45W/Relay	0.45W/Relay
Power input protection	Reverse polarity and over-current protection	Reverse polarity and over-current protection	N/A
PoE Outputs	N/A	3 monitored 12VDC aux o/p	3 monitored 12VDC aux o/p
	Interconnectivity		
Ethernet	10/100 Base-T		
RS-485	1 x 38400 RS-485 port for controller networking 1 x 38400 RS-485 port for Aperio™ wireless lock hubs		
OSDP & Wiegand	2 hardware selectable ports for selection of OSDP and legacy Wiegand		
Status LED	20 Status LED		
	Electric Lock Port Input Specification		
Electric Lock Port Inputs	Handle, Trigger, Cylinder Bolt-In inputs		
	Input Specification		
Digital Inputs	2 x Door Open Sensor inputs and 2 x Request to Exit Button inputs		
Input Type	4 dry contact inputs with end-of-line (EOL) sensing		
	Output Specification		
Number of relays outputs	3		
Output type	3 x independent, single-pole, double-throw (SPDT) dry contact relays		
Relay contacts	Normally Open, Common, Normally Closed		
Contact ratings	5A @ 28VDC (TV-5 Rated) 100k operations minimum		
	Environmental specifications		
Operating temperature	-25° to +60°C or -13° to +140°F		
Storage temperature	−40 ° to 85 °C or -40° to +176°F		
Operating humidity	0 to 95% relative humidity non-condensing (at +40°C / +104°F)		
Environmental rating	IP10	IP10	IP10
	Certifications		
CE (EU)	✓	✓	✓
UL	On request	On request	On request
SABS (RSA)	✓	✓	✓
RoHS	✓	✓	✓



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control industry

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