



# I4GEN BOX / I4GEN TS

Remote supervision, control and configuration module / Local HMI

**I4Gen Box** is a platform offering advanced remote access functionalities for CRE Technology controllers. This rear-mounted product enables remote monitoring, configuration and control of controllers via the secure ZOHO Assist® platform. In addition, the use of e-mail services guarantees reliable reporting of alarms and faults. It is also possible to connect a GPS antenna to the product in order to benefit from the geolocation of your equipment. To benefit from these features, the Internet connection can be established by various means: WIFI, Ethernet or 4G.

**I4Gen TS** is an optional colour touch screen that complements the I4Gen Box. This product, mounted on the front of the cabinet and connected to the I4Gen Box by a USB and HDMI cable, provides a high-performance, intuitive HMI on site.

This modular platform meets all industrial HMI requirements, while optimising costs:

- Each controller can be associated with up to 4 I4Gen HMIs.
- A single I4Gen Box allows you to monitor and manage up to 40 controllers from a centralized interface.

I4Gen Box can be configured from I4Gen TS, or via the free **Box Manager** software.



PART NUMBER	DESCRIPTION
A58U0	I4Gen Box with 4G and GPS support
A58U1	I4Gen Box standard
A58T0	I4Gen Box + I4Gen TS 7" kit
A58T1	I4Gen Box + I4Gen TS 10" kit

## KEY FEATURES

### Advanced and simplified connectivity

- WiFi, Ethernet (WAN) or 4G (via SIM card) connectivity for Internet access in all situations.
- Automatic configuration of the IP addresses of all controllers for quick and easy access.
- Automatic time synchronisation on the network, applied to all the controllers in the installation.
- Software update (I4Gen Box and controllers) via Internet or USB key.

### Real-time supervision and data management

- Automatic display of a single-line diagram of your power plant, simplifying supervision and control of up to 40 energy sources.
- Time-stamped archiving of the last 500 events/alarms/faults, with several filters to facilitate diagnosis.
- Historical production curves for up to 30 years of data.

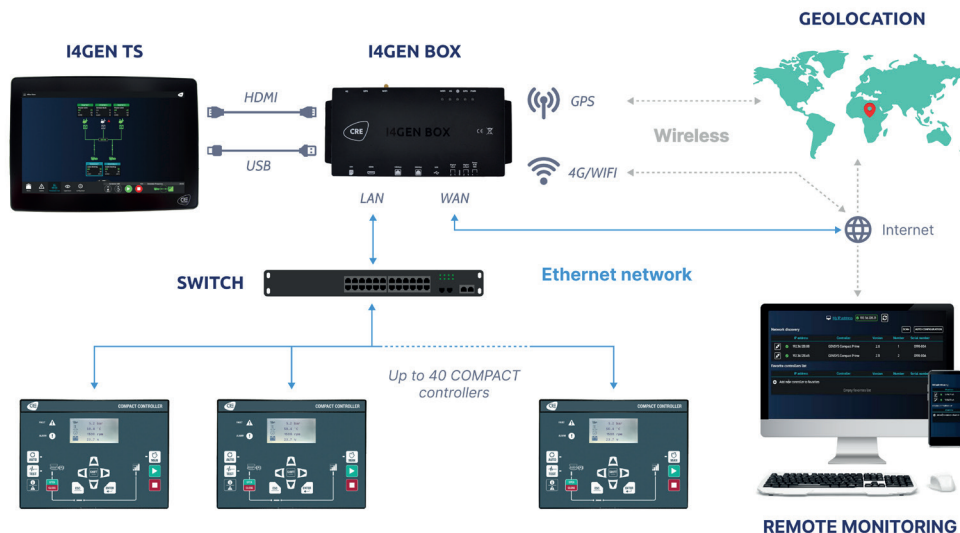
### Advanced customisation

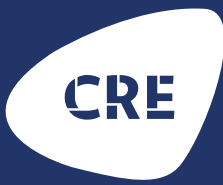
- Fully customisable display pages to meet your specific needs.
- Customisable customer logo displayed in the header, home page and start-up screen.

### Remote access, security and emailing

- Secure remote access via ZOHO Assist® to monitor, configure, control and update your equipment wherever you are.
- Detailed e-mail/SMS notification when an alarm or fault occurs or a digital input is activated.
- Built-in GPS location and e-mail notification if generators are moved.
- Password management compliant with cybersecurity standards
- Multi-user management with rights control

## OPERATING DIAGRAM





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## CERTIFICATIONS

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EMC Directive 2014/30/UE	Immunity according with EN 61000-6-2 and emission according with EN 61000-6-4
Vibrations and shocks	According with EN60255-21-1, EN60255-21-2, EN60255-21-3
Certificates	CE, RoHS

## I4GEN BOX SPECIFICATIONS

### SYSTEM

Processor	Broadcom BCM2711, quad-core Cortex-A72 @ 1.5 GHz
Memory	4GB LPDDR4-3200 SDRAM
Storage	eMMC (16GB)

### CONNECTIVITY

2 Ethernet ports	<ul style="list-style-type: none"><li>• 1 Gbit/s for the Internet connection (WAN)</li><li>• 100 Mbit/s for local connection (LAN)</li></ul>
2 USB ports	For powering I4Gen TS (up to 2A), or for transferring data to a USB memory stick
1 HDMI port	For video signal transmission to I4Gen TS
1 SIM port	Allows you to use a SIM card to authorise mobile data for 4G internet access
3 Antenna ports: 4G, GPS, WIFI	For use with external antennas to amplify signals
2 Digital inputs	To trigger an email/SMS to be sent or displayed on custom pages
2 Digital outputs	Can be activated via buttons on custom pages

### SUPPLY VOLTAGE

Power supply range	8...36 VDC
Voltage drops	Accepts battery voltage drops when generators start up

### DIMENSIONS

Global (W x H x D)	239.9 x 106.3 x 33.8 mm (9.44 x 4.19 x 1.33 in)
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### ENVIRONNEMENT

Operating temperature	-20°C to 70°C
Humidity	5 % to 95 % (non-condensed)
Altitude	Up to 5000 m

### CASE

Material	Plastic
Colour	Black

### INSTALLATION

Mounting	Suitable for DIN rail or screw mounting
Mounting options	Robust mounting options for tough industrial environments

### WEIGHT

Weight	0.36 kg (0.79 lbs)
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### LANGUAGES

Supported languages	English, French (other languages available on request)
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## I4GEN TS SPECIFICATIONS

	I4GEN TS 7"	I4GEN TS 10"
<b>SCREEN</b>		
Type	Touch screen	
Size	7 inches	10 inches
Resolution	1024x600 pixels	1280x800 pixels
Colour	16.7M	
Brightness	800(TYP) cd/m <sup>2</sup>	850(TYP) cd/m <sup>2</sup>
Display type	Transmissive, IPS, NB	
<b>ENVIRONMENT</b>		
Operating temperature	-20°C~60°C	-20°C~70°C
Storage temperature	-30°C~70°C	-30°C~80°C
IP front	IP65/NEMA 4	
<b>CONNECTIVITY</b>		
1 HDMI port	For video signal reception	
1 USB-C port	For powering I4Gen TS from I4Gen Box and for transmitting touch signals to I4Gen Box	
<b>INSTALLATION</b>		
Panel cut out (W x H)	177.8 x 117.3 mm (7 x 4.6 in)	238.3 x 165.3 mm (9.4 x 6.5 in)
<b>WEIGHT</b>		
Weight	0.38kg (0.84 lbs)	0.76 kg (168 lbs)

## I4GEN BOX ACCESSORIES

PART NUMBER	NAME	DESCRIPTION
A58V0	I4GEN TS 7"	7" touch screen
A58V1	I4GEN TS 10"	10" touch screen
A58W3	WIFI antenna	Antenna for WIFI signal amplification
A58W0	4G/GPS antenna	Antenna for 4G and GPS signal amplification
A58W4	4G/WIFI/GPS antenna	Antenna for 4G, WIFI and GPS signal amplification
A58W1	HDMI angled cable	HDMI angled cable suitable for very high vibrations
A58W2	USB-C angled cable	USB-C angled cable suitable for very high vibrations

## RELATED PRODUCTS

<b>CONTROLLERS</b>	
A56-AMF	AMF COMPACT
A56-MAINS	GENSYS COMPACT MAINS
A56-PRIME	GENSYS COMPACT PRIME
A56-MAST	MASTER COMPACT
A56-MAS1B	MASTER COMPACT 1B
A56-BTB	BTB COMPACT
A56-PV	HYBRID COMPACT
A56-BAT	BAT COMPACT

