i^3 Intelligent Control Station

Range: i^3AX, i^3BX, i^3CX, i^3CMini, i^3E, i^3DX

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Common i^3 Features

- Addressable function keys
- Configurable serial communication ports
- Integral CAN port
- Integral Ethernet port
- Up to 24 digital inputs (integral)
- Up to 6 analogue inputs (integral)
- Up to 16 digital outputs (integral)
- Up to 4 analogue outputs (integral)
- High speed counter
- Stepper control (PWM)
- CAN, serial & Ethernet based remote I/O
- Modem interface
- USB port for programming
- microSD™ removable media up to 32GB
- PID control
- Alarm function
- Real time clock
- IP65 (NEMA 4X) protection
- Free software
- Supports i3-RMI
- Voltage range: 10-30VDC
- FCC, CE, UL, cUL approved

Key Features i^3AX

- 128 x 64 monochrome LCD display
- 20 function keys

Key Features i^3BX

- 240 x 128 monochrome touch screen
- 4 function keys

Key Features i^3CMini

- 320 x 240 touch screen 3.5" display
- 4 function keys
- High resolution 65k colours
- USB port for flash drives up to 2TB

Key Features i^3CX

- 640 x 480 touch screen 5.7" display
- 5 function keys
- High resolution 65k colours
- USB port for flash drives up to 2TB

Key Features i^3E

- 800 x 480 touch screen 7" display
- 5 function keys
- High resolution 65k colours
- 2 integral Ethernet ports
- 2 integral CAN ports
- USB port for flash drives up to 2TB

Key Features i^3DX

- 640 x 480 touch screen 10.4" display
- 7 function keys
- High resolution 65k colours
- 2 integral Ethernet ports
- 2 integral CAN ports
- USB port for flash drives up to 2TB

IMO's flagship i^3 Controller reduces equipment costs and build time by integrating PLC, HMI and Openbus communications technology into a single, easy to mount unit.

Available with a combination of Digital and Analogue I/O including Thermocouple and PT100 inputs, the i^3 Controller is ideal for both process control and factory automation applications; especially as it is backed by IMO's unique 3-year warranty.

Although measuring from just 96mm² by 57.5mm deep, the i^3 nevertheless packs in levels of functionality that makes the unit the most flexible and cost effective in its class. In addition to digital and analogue I/O, and integral HMI, the i^3 integrates advanced controls such as PID for process control, PWM for stepper motor control, GSM modem or Ethernet, Recipe, Alarm, Timer, microSD™, High Speed Counter functions, web server and FTP, all of which are supported by FREE to download IMO i^3 Configurator Software.

The i^3 is the no-compromise solution for all-in-one display, control and communication and I/O requirements.

i^3 Specifications

	i^3AX	i^3BX	i^3CMini	i^3CX	i^3E	i^3DX
Supply Voltage	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC	10-30VDC
Colours	2	2	65535	65535	65535	65535
Screen	128 x 64 F-Key	240 x 128 Touch	320 x 240 Touch	640 x 480 Touch	800 x 480 Touch	640 x 480 Touch
Analogue Input Resolution	12/14 (V/mA) Bit 16 Bit (TC/RTD/mV)*	12/14 (V/mA) Bit 16 Bit (TC/RTD/mV)*	12/14 (V/mA) Bit 16 Bit (TC/RTD/mV)*	12/14 (V/mA) Bit 16 Bit (TC/RTD/mV)*	12/14 (V/mA) Bit 16 Bit (TC/RTD/mV)*	12/14 (V/mA) Bit 16 Bit (TC/RTD/mV)*
Analogue Output Resolution	12 Bit (V/mA)	12 Bit (V/mA)	12 Bit (V/mA)	12 Bit (V/mA)	12 Bit (V/mA)	12 Bit (V/mA)
Function Keys	20	5	5	6	6	7
Serial Ports	2	2	2	2	3	2
USB Ports	1	1	2	2	2	2
CAN Ports	1	1	1	1	2	1
Ethernet Ports	1	1	1	1	2	2

* Model dependant

i^3AX	DI	DO	AI	AO
I3AX12X/10B04-SEHF	12	12	2	-
I3AX12X/10D03-SEHF	12	6 Relay	4	-
I3AX12X/13C14-SEHF	12	12	2 UAI*	2
I3AX12X/20B05-SEHF	24	16	2	-
I3AX12X/10E24-SEHF	12	12	6 UAI*	4

i^3CX	DI	DO	AI	AO
I3CX12Z/10D03-SEHF	12	6 Relay	4	-
I3CX12Z/20B05-SEHF	24	16	2	-
I3CX12Z/13C14-SEHF	12	12	2 UAI*	2
I3CX12Z/10E24-SEHF	12	12	6 UAI*	4
I3CX12Z/00000-SEHF	-	-	-	-

i^3BX	DI	DO	AI	AO
I3BX12Y/10D03-SEHF	12	6 Relay	4	-
I3BX12Y/13C14-SEHF	12	12	2 UAI*	2
I3BX12Y/20B05-SEHF	24	16	2	-
I3BX12Y/10E24-SEHF	12	12	6 UAI*	4

i^3E	DI	DO	AI	AO
I3E14Z/10B04-SEHF	12	12	2	-
I3E14Z/10D03-SEHF	12	6 Relay	4	-
I3E14Z/13C14-SEHF	12	12	2 UAI*	2
I3E14Z/20B05-SEHF	24	16	2	-
I3E14Z/00000-SEHF	-	-	-	-
I3E14Z/10E24-SEHF	12	12	6 UAI*	4

i^3CMini	DI	DO	AI	AO
I3CM12Y/10B04-SEHF	12	12	2	-
I3CM12Y/10D03-SEHF	12	6 Relay	2	-
I3CM12Y/13C14-SEHF	12	12	2 UAI*	2
I3CM12Y/20B05-SEHF	24	16	2	-
I3CM12Y/00000-SEHF	-	-	-	-
I3CM12Y/10E24-SEHF	12	12	6 UAI*	4

i^3DX	DI	DO	AI	AO
I3DX12Z/10D03-SEHF	12	6 Relay	4	-
I3DX12Z/13C14-SEHF	12	12	2 UAI*	2
I3DX12Z/10E24-SEHF	12	12	6	4
I3DX12Z/20B05-SEHF	24	16	2	-
I3DX12Z/00000-SEHF	-	-	-	-

* UAI - Universal Analogue Inputs (V, mA, T/C, PT100, mV)

i^3 Configurator Software

IMO provides license free programming software for all i^3 Controllers. Simply go to www.imopc.com and click on "Software" to find the range of products you need software for, and then download as required.

Accessories

I3-MA-25G	2.5G Modem with Antenna
I3-MA-30G	3G Modem with Antenna
I3-PC45	Serial Programming Cable
PC501	USB to Serial Adaptor
I3-PS	Profibus Slave Expansion
USB-301A	USB Programming Cable

IMO Solar Cube Solar Tracker & Measurement Controller
Intelligently Powered by i^3 - Go to www.imopc.com for more information

i^3 Intelligent Control Station

Range: i^3ALite, i^3CLite, i^3ELite

Common i^3 Features

- Addressable function keys
- Configurable serial communication ports
- Integral CAN port
- Up to 12 digital inputs
- Up to 4 analogue inputs
- Up to 12 digital outputs
- Up to 2 analogue outputs
- High speed counter
- CAN, serial & Ethernet based remote I/O
- USB port for programming
- microSD™ removable media up to 32GB
- PID control
- Alarm function
- Real time clock
- IP65 (NEMA 4X) protection
- Supports i3-RMI*
- Free software
- FCC, CE, UL, cUL approved

* Model dependant

Key Features i^3ALite

- 128 x 64 monochrome LCD display
- 14 function keys

Key Features i^3CLite

- 480 x 272 touch screen 4.3" display
- 4 virtual function keys
- High resolution 65K colours
- Integral Ethernet port
- Integral RTD inputs

Key Features i^3ELite

- 800 x 480 touch screen 7.0" display
- 5 virtual function keys
- High resolution 65K colours
- Integral Ethernet port
- Integral RTD inputs

IMO's flagship i^3 Controller is now available with an entry level i^3 Lite series combining all familiar features and functions you have come to expect from the i^3 range.

Available with a combination of Digital and Analogue I/O including PT100 inputs, the i^3 Lite Controller is ideal for both process control and factory automation applications; especially as it is backed by IMO's unique 3-year warranty. The i^3 Lite Controller is available with two input/output configurations, reflecting today's application needs.

The i^3 Lite range packs in levels of functionality that makes the unit the most flexible and cost effective in its class. In addition to digital and analogue I/O, and integral HMI, the i^3 Lite integrates advanced controls such as PID for process control, Ethernet*, Recipe, Alarm, Timer, microSD™, High Speed Counter functions all of which are supported by the same, familiar i^3 Configurator Software used for the standard i^3 range.

The i^3 is the no-compromise solution for all-in-one display, control and communication.

* Model dependant

i^3 Lite Specifications

	i^3ALite	i^3CLite	i^3ELite
Supply Voltage	24VDC	24VDC	24VDC
Colours	Mono	65535	65535
Screen	128 x 64 F-Key	480 x 272 Touch	800 x 480 Touch
Analogue Input Resolution	12 Bit (mA)	12 Bit (mA/RTD)	12 Bit (mA/RTD)
Analogue Output Resolution	12 Bit (mA)	12 Bit (mA)	12 Bit (mA)
Function Keys	14	4	5
Serial Ports	2	2	2
USB Ports	1	1	1
CAN Ports	1	1	1
Ethernet Ports	-	1	1

i^3ALite	DI	DO	AI	AO
i3AL12X/10D12-SCHF	12	6 Relay + 2	4	2
i3AL12X/10D14-SCHF	12	12	4	2

i^3C Lite	DI	DO	AI	AO
i3CL12Y/10D12-SEHF	12	6 Relay + 2	4*	2
i3CL12Y/10D14-SEHF	12	12	4*	2

i^3ELite	DI	DO	AI	AO
i3EL12Y/10D12-SEHF	12	6 Relay + 2	4*	2
i3EL12Y/10D14-SEHF	12	12	4*	2

* Supports RTD input