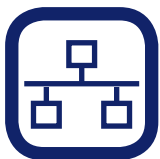# *i*Connect
Remote M2M Gateway

*i*Connect to your machine

*i*Connect

Remote M2M Gateway Solution

- Program & configure your devices remotely
- Manage all your devices via the IMO*Gateway*
- Monitor your devices for predictive maintainance
- Data logging functionality
- Remote alarm monitoring via email & SMS
- Ethernet connectivity as standard
- Mobile conectivity option (inc. ruggedised SIM)

CE

Modbus

MySQL.

Ethernet
As Standard

3G

*i*Connect Overview

iConnect is a Remote M2M Gateway device allowing remote access to the IMO range of automation products and inverter drives. It automatically connects to the IMO*Gateway*, enabling you to program your device*, change parameters and set up alerts.

iConnect features include:

- 1 x Ethernet & 2 x USB Ports
- Industrial Internet of Things (IIoT) compatible
- Modbus RTU Read and Write connectivity
- Multi-user access available
- Multiple devices can be connected
- Buffer database feature
- Free 500MB of cloud storage
- Option to store data on personal designated servers
- FREE access to the IMO*Gateway* management portal (can be custom branded)
- No software licensing fees

* This feature will be available as an "over-the-air" (OTA) update by Q4/2016

*i*Connect - IIoT Environment

iView HMI Controllers

iSmart Intelligent Relays

Jaguar AC Inverter Drives

i^3 Intelligent Controllers

Temperature Controllers

XGB Programmable Logic Controllers

The iConnect can be connected to internet via the integrated Ethernet port or an optional 3G modem offering mobile connectivity. iConnect automatically connects to the IMOGateway, where the device can be managed, run programs and access data from IMO devices such as the i3 integrated controller, iView HMI, XGB PLC, iSmart Intelligent relays, temperature controllers, Jaguar inverter drives and many others.

IMO_Gateway_

The IMOGateway allows you to register new iConnect devices, configure FTP settings to transfer data files between the remote device and data servers, setup and manage system alerts. The user settings within the IMOGateway allows to save the data files to IMOGateway or customer preferred data servers.

The IMOGateway also enables you to configure VPN settings which facilitates uploading and downloading programs to IMO automation controllers.
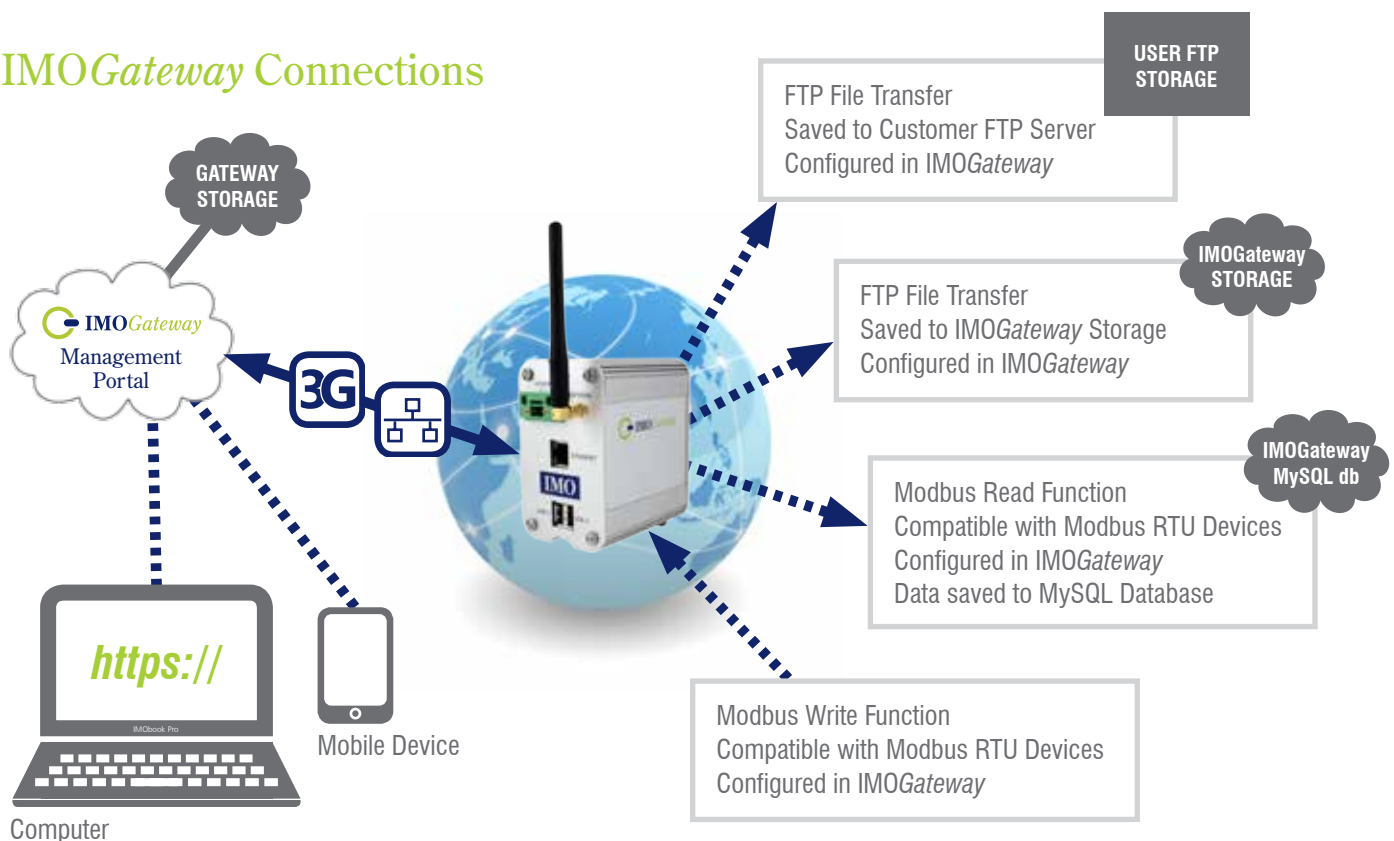

IMOGateway screenshot - company and contact information for illustrative purposes only

The iConnect can be used to configure Modbus RTU communication to IMO devices for reading process values and writing set points for process control and all these settings can be done via IMOGateway. The process values read from the Modbus slave units is saved in MySQL compliant database servers.

IMOGateway can be customized with brand logos and suitable internet addresses. Please contact IMO for more information.

IMO_Gateway_ Connections

USER FTP STORAGE

FTP File Transfer
Saved to Customer FTP Server
Configured in IMO_Gateway_

IMOGateway STORAGE

FTP File Transfer
Saved to IMO_Gateway_ Storage
Configured in IMO_Gateway_

IMOGateway MySQL db

Modbus Read Function
Compatible with Modbus RTU Devices
Configured in IMO_Gateway_
Data saved to MySQL Database

Modbus Write Function
Compatible with Modbus RTU Devices
Configured in IMO_Gateway_

GATEWAY STORAGE

IMO_Gateway_
Management Portal

3G

https://

IMObook Pro

Computer

Mobile Device

IMO*Gateway* Storage

The IMOGateway provides 500MB secure storage per iConnect for storing data files. The storage servers have 99.99% durability and availability with automatic encryption using Advanced Encryption Standard (AES) 256 bit for added security.

The IMO*Gateway* data storage is designed to be robust, reliable and incredibly secure giving added peace of mind that the data is safe and redundantly backed up for immediate access.
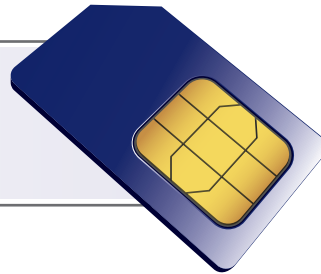
*i*Connect with Mobile Connectivity

The ICONNECT-3G-V3 is supplied with a 3G M2M SIM card as standard, offering 3G mobile connectivity. We provide the 3G M2M SIM card and 3G data plans as we understand that the reliability is key for access onto our secure system on a dedicated M2M network. The M2M connectivity offers the ability to communicate between the iConnect and IMO*Gateway* or customer preferred data servers without the data passing across the internet or public mobile network.

As well as being secure we offer the following benefits.

- Non-steering network roaming
- Data roaming across extensive range of global networks
- Data caps, bringing a fixed monthly fee
- Network level SIM management via the IMO*Gateway*

*i*Connect Dimensions

Antenna

125

93

DIN Rail Mount

Ethernet Port

Modbus Port

65

Technical Specification

Input Voltage	5VDC
Input Current	1.2A
Operating Temperature	0°C to 50°C
Operating Humidity	20% - 85% Non-condensing
Weight	440g (491g 3G version)

NOTE: All dimensions in mm

Ordering Information

Part Number	Description
ICONNECT-E-V3	iConnect for Ethernet device including IMO*Gateway* access and 500MB of Gateway Storage
ICONNECT-3G-V3	iConnect for Ethernet device with on-board 3G modem, antenna, ruggedised SIM, IMO*Gateway* access & 500MB of Gateway Storage
ICONNECT-ANTENNA	Optional antenna with male SMA connector for low signal environments or remote siting
GATEWAY-SMS-100	SMS bundle (pack of 100)
MPS-1-007-5DC	Power Supply 90-264V AC Input 5V DC Output 7.5 Watts 1.5A, DIN Rail mountable
IC-USB-RS-LPC	USB to RS485 Converter Cable for Modbus RTU communication

NOTE: Mobile data packs can be added. Go to www.imo-gateway.com

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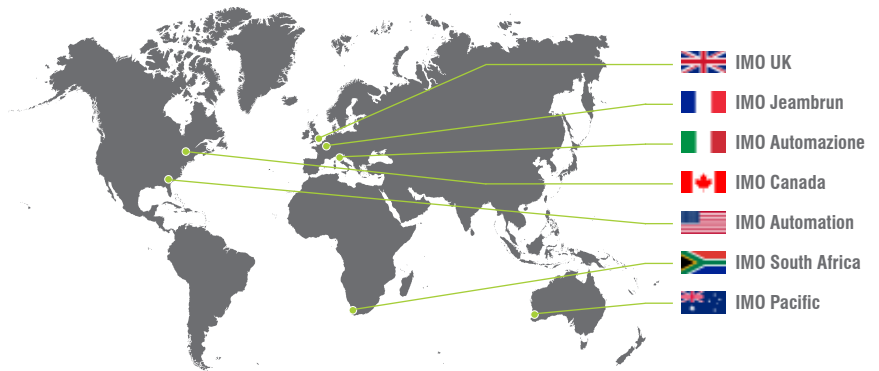Web: www.imopc.co.za

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