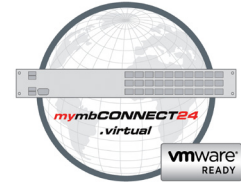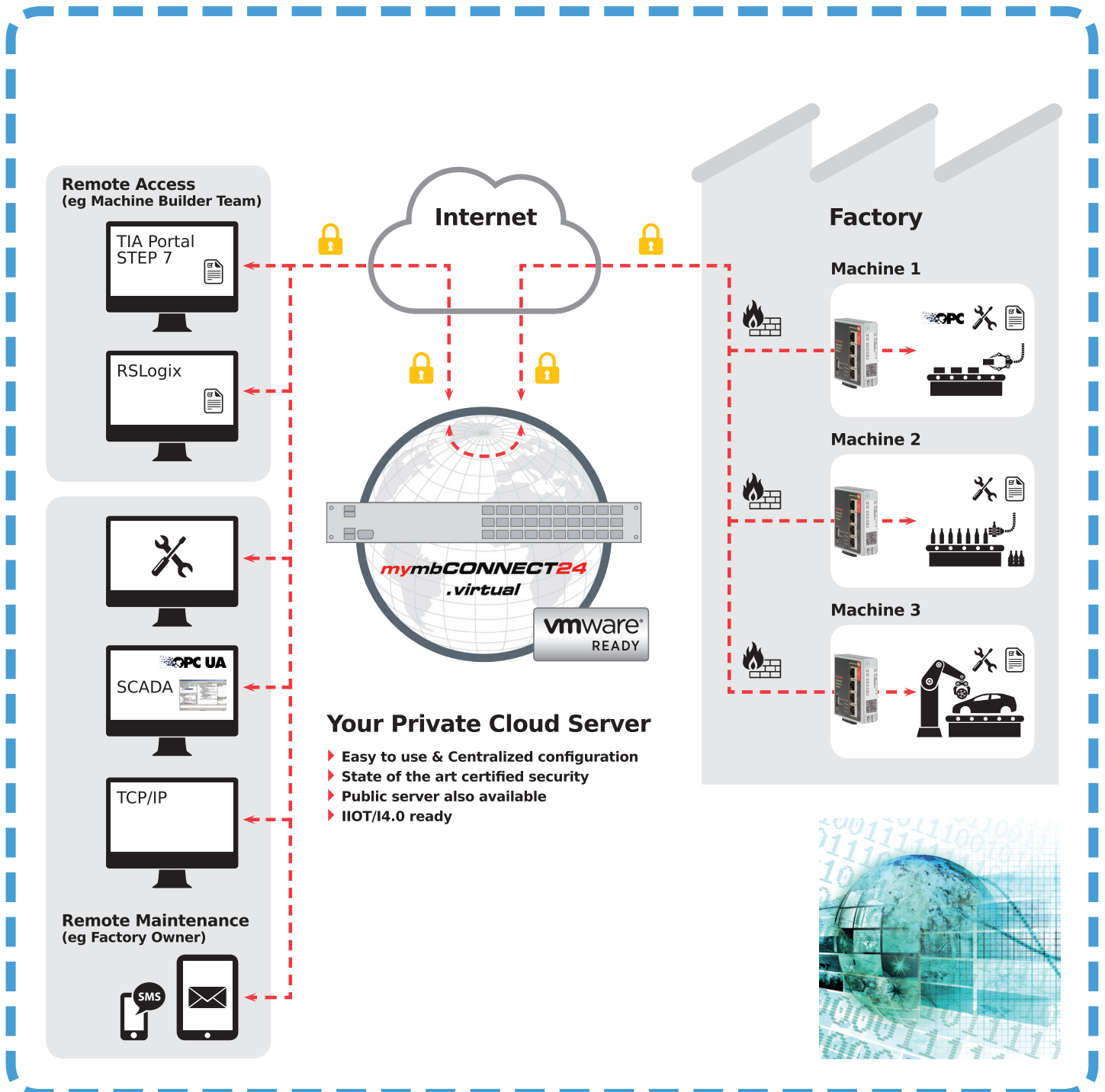# Industrial Remote Access Solution

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The Molex Remote Access Solution provides a secure, easy-to-install and use, and versatile method to optimize machine uptime and productivity by allowing support and maintenance employees immediate access to machines

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Industrial Remote Access Ecosystem: The routers and the server

Remote Access
(eg Machine Builder Team)

TIA Portal
STEP 7

RSLogix

Internet

SCADA
OPC UA

TCP/IP

Remote Maintenance
(eg Factory Owner)

SMS

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Your Private Cloud Server

▸ Easy to use & Centralized configuration
▸ State of the art certified security
▸ Public server also available
▸ IIOT/I4.0 ready

Factory

Machine 1

OPC

Machine 2

Machine 3

Industrial Secured Routers

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Molex Industrial Secured Routers provide a firewalled, seamless integration of a machine into a factory network through cyber-secured remote access, while still designed to be easily setup and operated without needing IT expertise.

Features and Benefits

Own your own server
- No dependence on third-party services. You own the network!
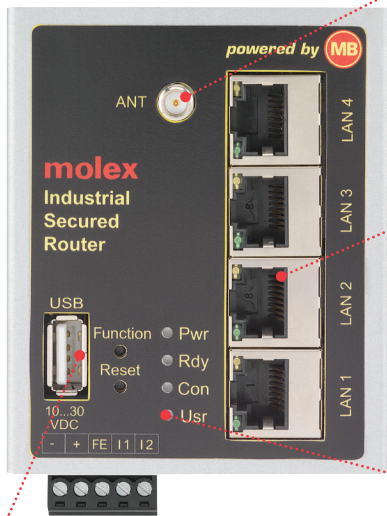
Mobile-device friendly
- Works easily on mobile devices and other hardware

WAN interface for VPN
- Use of existing internet connection
- Secured with easy-to-use firewall

Wifi interface for VPN
- Use of existing internet connection thru Wifi
- Secured with easy-to-use firewall

4-port Ethernet Switch
- Allow integration without modifying IP configuration using NAT
- No need for additional switch

USB Connector
- Easy configuration
- USB over Ethernet

User-Friendly
- Easy configuration, no IT skills required. USB over Ethernet

Diagnostic LEDs
- Status and troubleshooting made easy with LEDs for power, server connection status and operation status

2 digital inputs
- Allows alarm notification. Allows routing functions to be switched off

3-port Ethernet Switch
- Allows integration without modifying IP machine configuration using NAT. No need for additional switch

Specifications - Routers

Interfaces

Order No.	112036-5100	112036-5101	112036-5102	112036-5103	112036-5104	Characteristics
Engineering No.	DRL-ISR-100	DRL-ISR-101	DRL-ISR-102	DRL-ISR-103	DRL-ISR-104	
USB interface	1 x	1 x	1 x	1 x	1 x	USB Host 2.0
Digital inputs	2 x	2 x	2 x	2 x	2 x	10 – 30V DC
Switch port	3 x	4 x	4 x	4 x	4 x	10/100Mb FD auto-negotiation
WAN interface	1 x	–	–	–	–	10/100 Mbit/s full and half duplex operation, auto-crossing
RP-SMA socket	–	–	–	–	1 x	1 antenna included
WiFi modem	–	–	–	–	1 x	IEEE802.11b/g/n
3G modem	–	1 x UMTS	–	–	–	850,900,1800,1900Mhz
4G modem	–	–	1 x LTE	1 x LTE	–	DRL-ISR-102: 900, 1800Mhz DRL-ISR-103: 850, 1800Mhz

Industrial Secured Routers
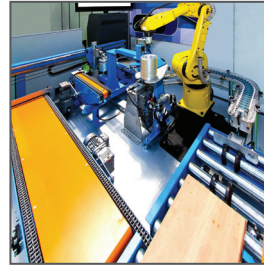
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Applications

Telecommunications/Networking

Industrial Automation

Food and Beverage

Robot Cells

Oil and Gas

General Information

NOTE: DRL-ISR-1xx can only be operated by using cloud server (ICS)

Voltage	10 - 30V DC (SELV and limited-energy circuit)
Power consumption	max. 250mA @ 24V
IP protection class	IP 20
Operating temperature	-40 – 75°C (0 – 50° for DRL-ISR-104)
Storage temperature	-40 – 85°C
Humidity	0 – 95% (non-condensing)
Dimensions (max.)	69mm x 38.5 x 92.5mm (W x D x H)
Weight (max.)	240g
Mounting	DIN rail mounting (based on DIN EN 50022)
EMC	EN 61000-6-4:2011-9; EN 61000-6-2:2006-3
Regulatory approvals	CE, UL, FCC, RoHS, RoHS China, REACH, EN 60950-1:2014-08; ETSI EN 300 328 V1.8.1 (2012-06), EN 60950-1 :2014-08, EN 60950-1:2014-08; ETSI EN 300 328 V1.8.1 (2012-06)

Ordering Information

Routers

Order No.	Engineering No.	Description
112036-5100	DRL-ISR-100	Industrial Secured Router with WAN interface, 3-port switch
112036-5101	DRL-ISR-101	Industrial Secured Router with 3G interface, 4-port switch (Oct. 2017)
112036-5102	DRL-ISR-102	Industrial Secured Router with 4G Europe/Australia interface, 4-port switch (Oct. 2017)
112036-5103	DRL-ISR-103	Industrial Secured Router with 4G US interface, 4-port switch (Oct. 2017)
112036-5104	DRL-ISR-104	Industrial Secured Router with Wifi interface, 4-port switch

Industrial Cloud Servers

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Molex Industrial Cloud Servers allow users to easily configure, manage and access automation machines and perform remote maintenance operations through audited, cyber-secured Ethernet channels using a cloud server platform that gives customers control and ownership of their data and the capability to facilitate future Industry 4.0 services

Product Features – Server

Server Expertise

- Partnered with MBConnect to provide a top-notch platform and portal for secure remote maintenance via the Internet

Unique Features

- PLC configuration software runs as if it were local
- USB over Ethernet

Ease of Use

- Easy configuration, no IT expertise required
- USB over Ethernet
- VMware cloud and virtualization software is common and familiar within the industry

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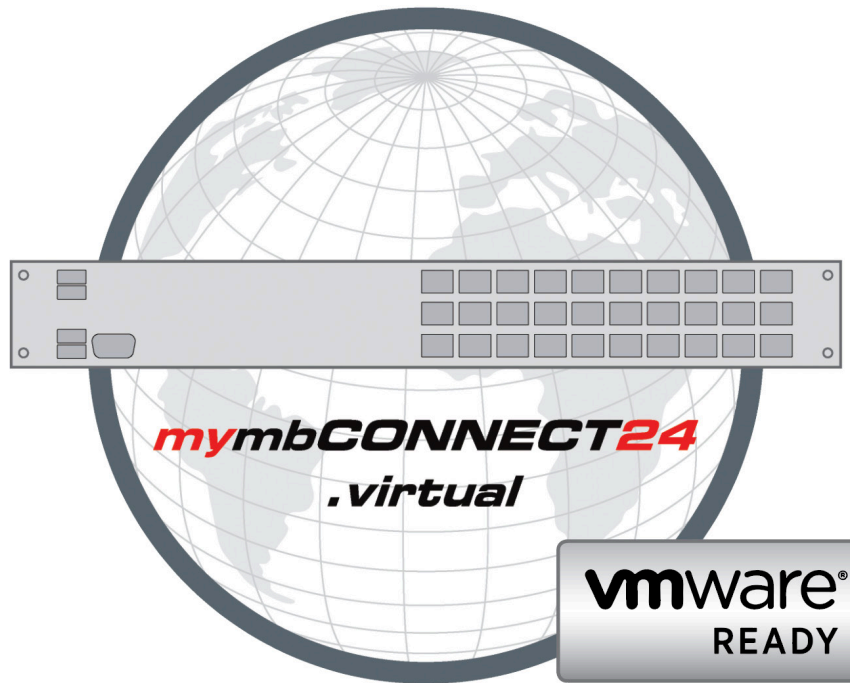
Centralized Management

- All-in-one portal application (device, user management, connections, alarms, dashboard…)
- Easy router configuration by USB or file transfer

Security

- OPENVPN. Security validated by Secuvera, a BSI-certified company
- Two-factor authentication
- Secure remote password protocol
- Certification authority

Scalable

- Private hosted (your cloud server runs under the control of your IT)
- Public hosted (ready-to-use server)
- Server performance selectable
- Server capabilities tunable with options
- Customizable
- Ready for Industry 4.0

Specifications

Network, security and VPN information and accreditations

VPN protocol	Open VPN, 1 tunnel
Encryption method	Blowfish
Encryption algorithm	MD5, SHA1
Authorization	Pre-Shared Key, X.509
Firewall	1:1 NAT, IP-filter, port forwarding, stateful inspection
IP router	NAT-IP, TCP/IP routing, IP forwarding
Acceditation	Certified by Secuvera, Member of TeleTrusT and Alliance for Cybersecurity
Services	DHCP client, NTP client
Time synchronization	NTP server
Router deactivation	Router may be deactivated by simple digital input

Industrial Cloud Servers

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Comparison table

Network, security and VPN information and accreditations

	PUBLIC		PRIVATE		
	112036-6100	**112036-6101**	**112036-6200**	**112036-6201**	**Description**
Account	1	1	1	1(+)	Accounts being supported by the server. (Max 5)
Devices	50	250	5	10(+)	Devices being managed by the server. (Max 20000)
Standard VPN Clients	-	(+)	-	(+)	VPN clients being managed by the server. (Max 20000)
Active connections	1	1(+)	1	2(+)	Simultaneous possible active connections (Max 250)
mbWEB2go connections	2	50	1	10(+)	Simultaneous possible web2go connection (Max 500)
users	25	250	5	1000	Maximum users supported by the server.
user groups	5	250	1	250	Maximum user group supported by the server.
clients	1	250	1	1000	Maximum clients

Ordering Information

Servers

Order No.	Engineering No.	Description
112036-6100	DRL-ICS-101	Industrial Cloud Server Public – Basic
112036-6101	DRL-ICS-104	Industrial Cloud Server Public - Individual
112036-6200	DRL-ICS-201	Industrial Cloud Server Private – Basic
112036-6201	DRL-ICS-202	Industrial Cloud Server Private – Individual

Public Server Options

Order No.	Engineering No.	Description
112036-7100	DRL-ICSO-104-25VC	25 additional VPN clients for public server, individual
112036-7101	DRL-ICSO-104-1AC	1 additional active connection for public server, individual

Private Server Options

Order No.	Engineering No.	Description
112036-7200	DRL-ICSO-202-1A	1 additional account for private server, individual
112036-7201	DRL-ICSO-202-25D	25 additional devices for private server, individual
112036-7202	DRL-ICSO-202-25VC	25 additional VPN clients for private server, individual
112036-7203	DRL-ICSO-202-1AC	1 additional active connection for private server, individual
112036-7204	DRL-ICSO-202-10WG	10 additional Web2go connections for private server, individual
112036-7205	DRL-ICSO-202-1M2M	1 additional M2M connection group for private server, individual

Note: Molex reserves the right to delay or cancel production of the depicted product without additional notice. Please contact your Molex customer service representative for product availability.

www.molex.com/link/industrialserversandrouters.html