CERTIFICATE

Certificate Id: 2PAA114612 _E-fect_Operator_Station

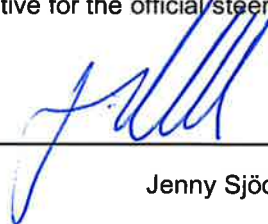|	
Category:	Servers and Workstation
Product Name:	E-fect Operator Station
Software Version:	N/A
Chipset Version:	Intel H97 Express
Vendor:	E-FECT AB
Certification Test Report:	3BSE084069
Certification reference:	System 800xA Version 6.0 64bit
Restrictions:	Only tested as Engineering/Workplace client

The certificate states that the product specified above has passed the test towards the specified integration category. The certification has been performed by an official certification center, approved by the official steering body for the Industrial IT Certification.

The basis for the certificate is documented according to the Industrial IT Certification – Document Number 3BSE037356. The certificate is valid for the above mentioned Product versions until the next major release of the certified product or the certification reference system. With a major release of the certified product or the reference system, a new certification is required to keep the certificate current.

ABB AB
721 59 Vasteras, Sweden

Date: 2015-06-18

Representative for the official steering body for the Industrial IT Certification

Jenny Sjödahl

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E-fect Operator Station

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The E-FECT Operator Station has dual network connections as standard, required by most industrial systems including the ABB 800xA. The machine has an Intel i5 processor and video card allowing connection of up to 4 monitors.

As there are no moving parts this computer has an extended life expectancy and all components have been selected and sourced to meet the requirements and quality of industrial environment.

Certification product details are summarized below:

Product Overview	
Processor	Intel i5-4xxxT Series
Memory	Standard DDR3 8GB, max 16GB
Chipset	Intel H97 Express
Hard disc	120GB 2.5" SATA SSD
PCI Expansion Bays	1 PCIe slot x16
Graphics	Matrox PCIe x16, 4 x DVI-I (with induded cable), Max 1920x1200 per DVI-I output
Network	2 x 10/100/1000Mbps Ethernet ports
Operating System	Microsoft Windows 8.1 Pro 64-bit
USB	8 (2 USB 3.0 front, 4 USB 3.0 rear, 2 USB 2.0 rear)

Product Details in tested sample	
Product	E-fect Operator Station
Processor	Intel Core i5-4570T (2.90GHz)
Memory	2x4 GB DDR3 8 GB total
Hard disc	120GB 2.5" SATA SSD
Graphics	Matrox PCIe x16, 4 x DVI-I (with induded cable), Max 1920x1200 per DVI-I output
Network	2 x 10/100/1000Mbps Ethernet ports
Storage CD-ROM	None
Operating System	Microsoft Windows 8.1 Pro 64-bit

Engineering	
Configuration and installation	None

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E-fect Operator Station

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EFECT
OPERATOR STATION

The E-FECT Operator Station is a computer developed with the challenging environment of a control room in mind. It is small, compact and can be mounted horizontally or vertically under a desk or to a wall.

The computer is completely silent as it has no moving parts such as fans or spinning hard drives. During normal operating conditions it has a power consumption of approximately 40 watts, highly efficient, and as a result does not become hot.

The E-fect Operator Station supports the 800xA Extended Automation System Value Propositions as noted below:

800xA Value Proposition Mapping

✓	**Reducing Time to Decision and Action**
	- Detailed performance information can be retrieved.

✓	**Engineering for Maximum Performance**
	- High level configuration
	-

✓	**Reducing Risk through High Integrity Automation**
	- Reduced risk through reduced number of components
	- Mechanical form factor improves lifetime

✓	**Investment Enhancement through Evolution**
	- Continuous developments of components.

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