

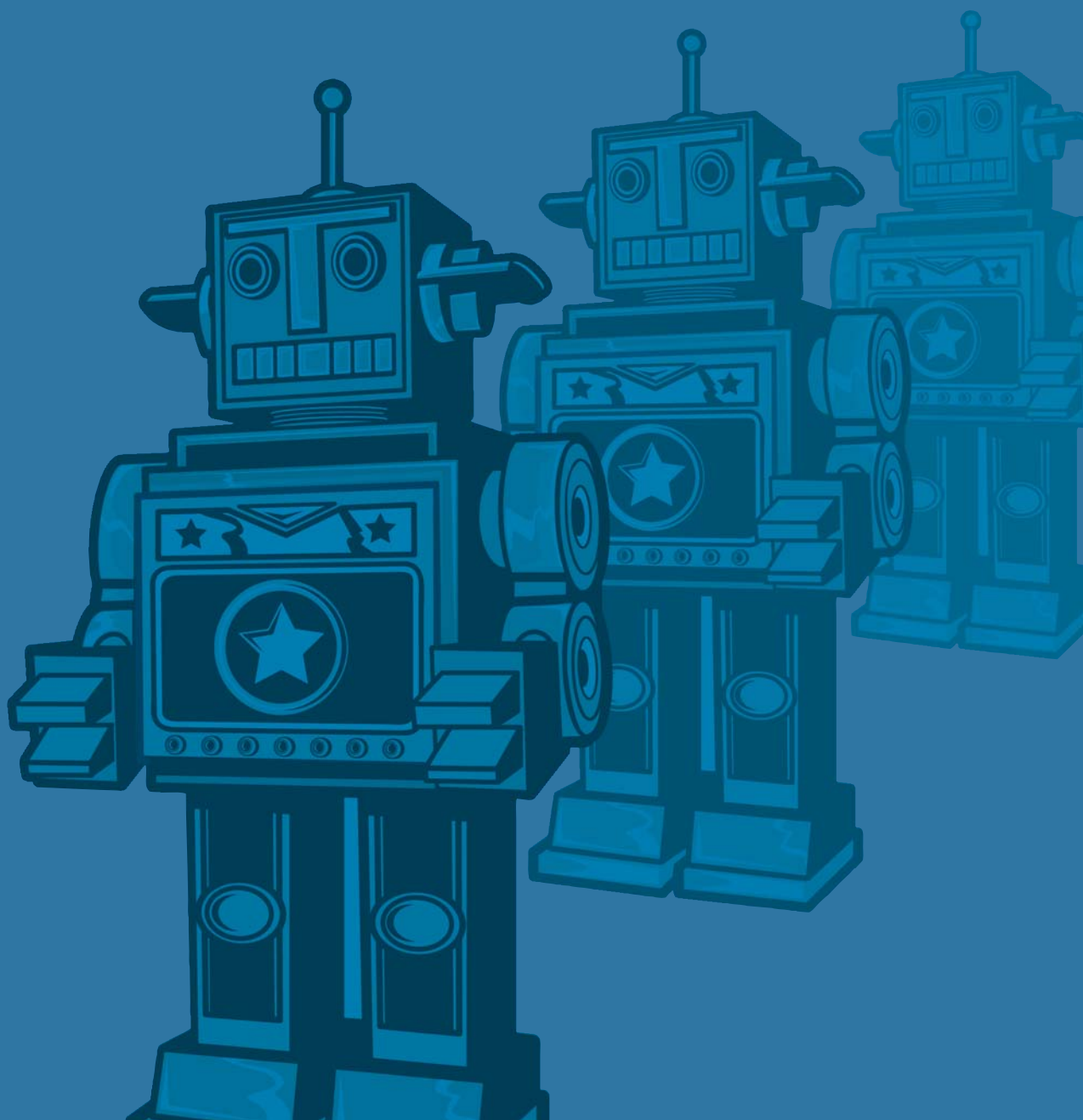
ES-Series Embedded Servers

CAPTEC

Tried, Tested and Trusted

# Servers

that work, work,  
work, work....



# Servers for Embedded Applications

## Challenges:

In today's increasingly complex and time compressed World, our over dependence on computer based processes and automation can mean they become over "taxed". Even a small error in their operation can have a catastrophic effect. System integrators work to minimise the risks of:

- **Equipment failure:** with its accompanying downtime cost
- **Disruption:** as system upgrades become necessary
- **System obsolescence:** needing expensive "workarounds"
- **Uncompetitive cost models:** reducing profitability

The core issue is how do you de-risk the chance of these issues occurring, in a situation where IT is evolving with little reference to those who have to supply, integrate systems for embedded applications

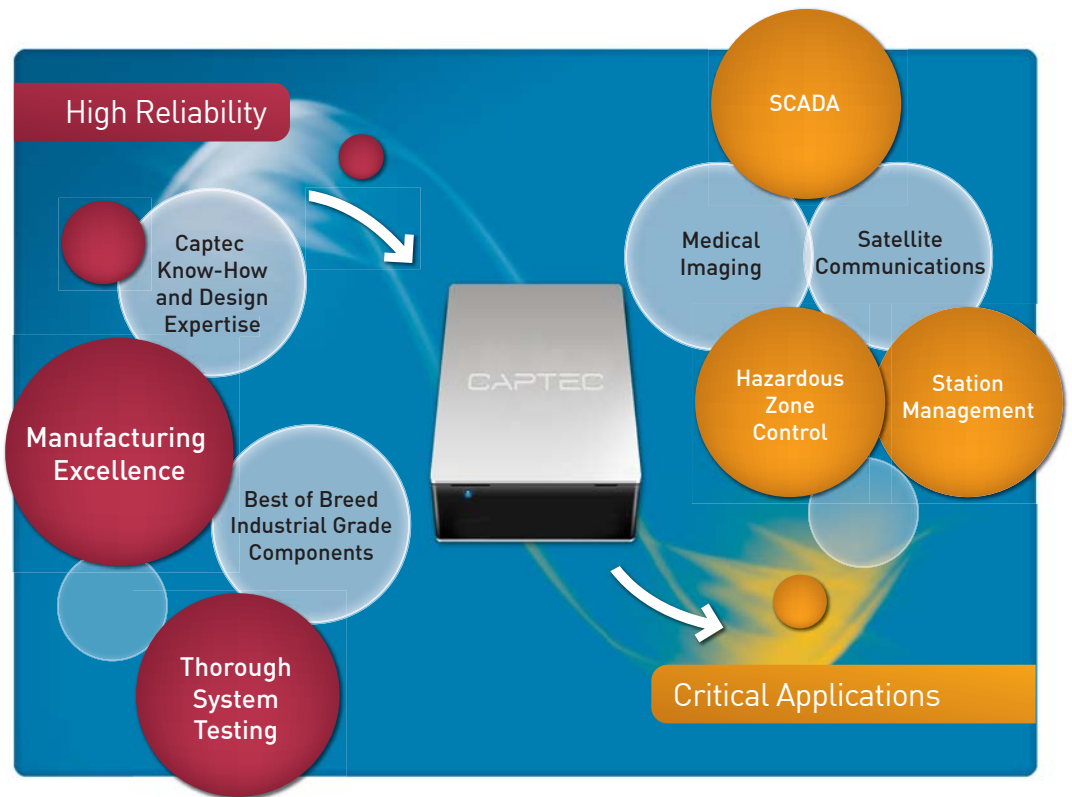
Captec Embedded Servers (ES Series) provide an important part of the answer in conjunction with Microsoft Windows Server for Embedded Systems. They are specifically designed for embedded applications and the need to minimise issues around reliability, availability, obsolescence and cost control.



# Benefits

## High Reliability - Tried, tested & trusted embedded servers

- Designed and manufactured specifically for embedded applications giving high system reliability with long Mean Time Between Failures (MTBF)
- Temperature stability ensured through optimised thermal management
- Engineered dust reduction ingress protection
- High reliability through best-of-breed industrial grade components and extensive system testing



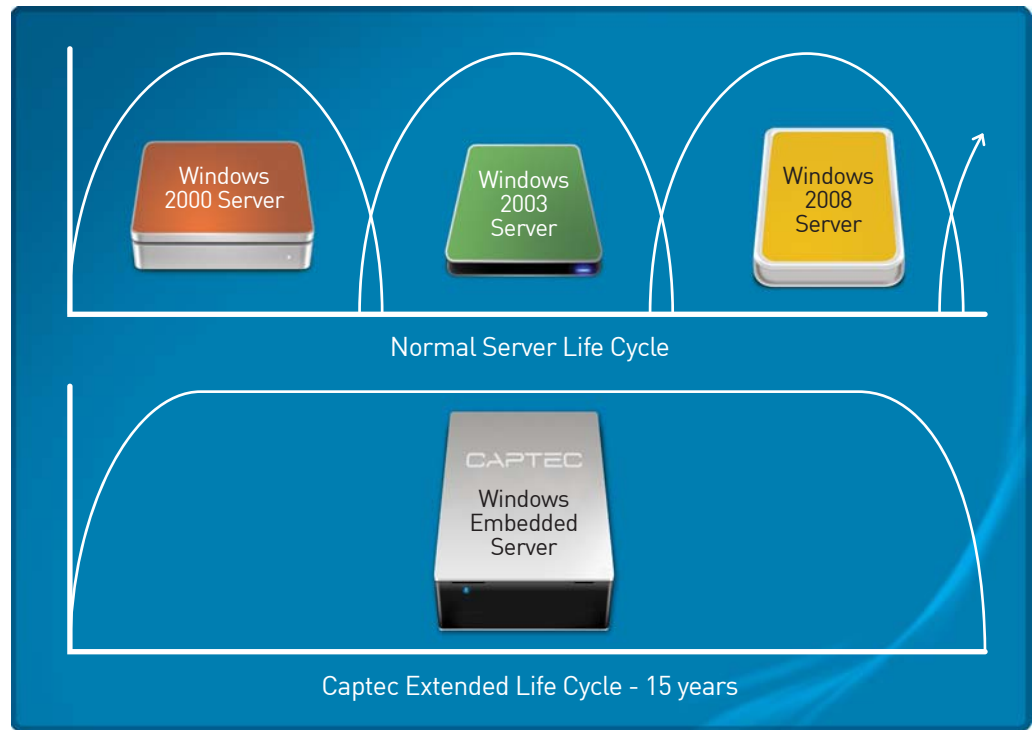
## High Availability - Preventing costly down time by providing a non-stop computing capability

- High availability enhanced by clustered failover configurations
- Powered by multiple redundant PSUs
- Redundant storage with RAID options
- Integrated remote management for monitoring and failure prevention



## Extended Life - Long life cycle avoiding software or hardware obsolescence disruptions

- Stable, long life Microsoft Embedded operating systems with 15 year availability
- Hardware obsolescence avoided by expert selection of long life components, roadmapped for 5+ years
- No software disruption caused by frequent hardware changes
- Life extension by expert managed obsolescence



## Reduced Cost - Stretch budgets further with lower total cost of ownership

- Benefit from flexible client licensing, and preferential embedded licensing costs
- Virtualisation of multiple server applications enabled by higher processing power and Microsoft Hyper-V technology
- High reliability further reducing servicing costs and failover risks
- Lower carbon footprint through reduced power consumption



## Performance

Powered by latest Intel second generation 32nm silicon technologies



## Maintenance

Hot swappable hard disks and serviceable air filter



## Redundancy

1+1 Redundant Power Supplies with dual power inputs



## Storage

High Capacity storage up to 20TB, additional data integrity with RAID



## Protection

Robust steel enclosure with industrial grade air filtering to prevent the ingress of dust



## Management

Full out-of-band remote management over IP



## Virtualisation

Virtualise several applications on to a single server with Hyper-V



## Failover

Failover Clustering; 2 or more physical or virtual servers for additional hardware redundancy



## Hardware

Best of breed industrial grade components optimally selected for best MTBF/value



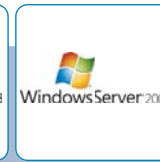
## Software

Integrated and configured by Captec; a Microsoft Embedded Gold Partner



## Extended Life

Microsoft Server for Embedded Systems is available for 15 years, future proofing and providing continued legacy support



# Application Ready

Simplify server deployment using the convenience of an Application Ready Server

Simple out-of-the-box operation with pre-installed Server Application

## SQL Server

- Industry standard database server for information management and query tools
- Pre-installed with SQL Server 2008 or 2005 for Embedded Systems

## Storage Server







- Fully integrated network-attached storage (NAS) appliance optimised to deliver a better file serving experience
- Based on Microsoft Storage Server 2008 R2 with iSCSI software target for unified file services and block I/O storage

## Embedded Application Server

- Specifically designed for hosting embedded applications, benefitting from flexible embedded licensing and reduced OS installation size with server core
- Integrate hardware and software to form a personalised appliance

## Threat Management Gateway Server

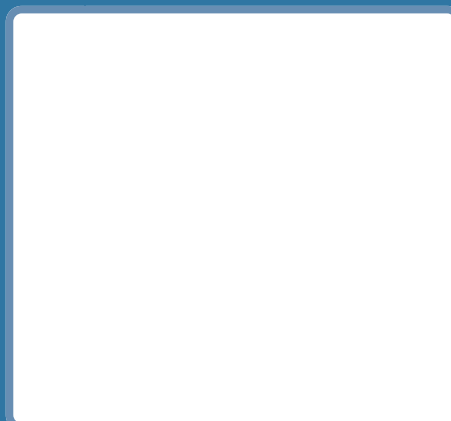
- Prevent unauthorised interference of automation systems from the latest cyber threats from a single centralised location
- Provide dynamic protection, whilst also saving time and cost

		Automation Embedded Server Range				
		ES-211	ES-251	ES-252	ES-413	ES-453
Physical 	Height	2U			4U	
	Width / Mounting	19" Rackmount			19" Rackmount	
	Depth	570mm			624mm	
Performance 	CPU	Intel Core i3	Intel Core i5	Intel Core i7	Intel Core i3	2x Intel Xeon
	Memory	8GB	8GB	16GB	8GB	32GB
	Disks	4x SATA	2x SATA	4x SATA	10x SATA	5x SATA
	Storage	8TB	Upto 4TB	Upto 8TB	10 TB (Upto 20TB)	Upto 10TB
	LAN	Dual Gigabit			Dual Gigabit, Opt. 10 Gigabit	
Environmental 	Ingress Protection	Inlet Air Filter			Inlet Air Filter	
	Operating Temperature	0°C - 45°C			0°C - 45°C	
Electrical 	Input	100 - 240 VAC			100 - 240 VAC	
	Redundancy	1+1			1+1	
Software 	O/S Support	Microsoft Server 2003, 2008, Storage Server 2008			Microsoft Server 2003, 2008, Storage Server 2008	
Roles 	Entry Level Storage Server	✓				
	High Capacity Storage Server				✓	
	Threat Management Gateway		✓	✓		
	Entry File Server / SQL / Realtime		✓			
	Mid File Server / SQL / Realtime			✓		
	High File Server / SQL / Realtime					✓
	Virtualised Servers 1-2		✓	✓		
	Virtualised Servers 3-4			✓		✓

EMEA Office  
Captec Ltd, Brunel Way, Segensworth,  
Fareham, Hampshire, England, PO15 5TX, UK  
Tel: +44 (0)1489 866 066 | Fax: +44 (0)1489 866 088  
Email: sales@captec.co.uk

North America Office  
Captec Americas Inc.  
105 Woodside Business Centre,  
675 Queen Street South, Kitchener,  
Ontario, N2M 1A1  
Tel: +1 (519)576-3336 | Fax: +1 (519)576-3992  
Email: sales@captecamericas.com

www.captec.co.uk



Strenuis Ardua Cedunt - Difficult things fall to the strong

110309 © Captec Ltd. 2011 All rights reserved - All products and company names listed are trademarks or trade names of their respective companies