

# LOUVAR ZX8 – 8<sup>th</sup> Gen Defence Certified Fanless Embedded Computer

Intel Core, 8th generation, i3, i5, i7,  
8800 series processor

## KEY BENEFITS

- Fully certified for defence applications to include shock, vibration, EMC and environmental.
- Optional Tempest and Lloyds certifications on request.
- Recommended for Naval fleets and commercial shipping alike.
- Powerful Intel 8th generation processor provides for fast performance.
- RAID configured for data protection using removable and lockable SSD caddies.
- High quality nVIDIA graphics card which can drive up to 4 additional screens.
- Dual fibre ports for additional network security.
- Rugged construction to withstand shock and vibration.
- Customised configurations available.



The Louvar ZX8 – Gen 8, is a high performance, rugged, 8th generation embedded computer designed for both defence and commercial shipping applications and can include bridge functions and general communication and systems.

It is a well engineered compact solution offering excellent performance and capacity as it can drive an additional four screens thanks to its powerful nVIDIA quadro graphics card with on board processor.

Red and black security is maintained through a copper LAN connection and dual fibre cards with SFP modules. Performance can be increased and data protected using the inbuilt RAID system with two removable and lockable fast SSD drives.

Compliant to most international Naval and DEFSTAN standards it is designed and built for a long working life providing an excellent return on investment.



## Model ZX8-CM1-50-xx



2 x removable SSD drives.



the white caddy fitted on the ZX8 is slightly larger than previous models



powerful nVIDIA graphics card.

- ✓ Defence Compliant
- ✓ Tempest (optional)
- ✓ High Performance
- ✓ Excellent ROI

**Rugged, Compact, Defence Compliant, Fanless Computing**

# Specifications

Model ZX8-CM1-50-xx	
CPU	Intel Core Processor i7-8850H 9 MB SmartCache, 2.60GHz - 4.30GHz Intel 8 <sup>th</sup> Gen Intel Core H-series Processor FCBGA1440 Package
Memory	16Gb DDR 4 SO-DIMM 2666MHz RAM supports up to 32Gb
Chipset	Intel QM370
Motherboard	Mini-ITX with integrated Graphics, LAN, Audio and USB
SSD	On board SATA controller provides SATA 3 interface
Peripherals	1 x Display Port, 1x HDMI, 1x DVI, 1 x VGA (optional) 6 x USB 3.1/2.0 (4 on rear, 2 on front) 2 x RS232 (2 on rear)
Audio	On board sound Realtek ALC262 HD Audio
LAN	On board Intel I219-LM Gigabit PHY LAN, Intel I210-AT Gigabit LAN 2 x RJ45 LAN ports
Graphics	1 x DVI, 1 x Display Port, 1 x HDMI, 1 x VGA Addon Card nVIDIA Quadro P2000, PCIe

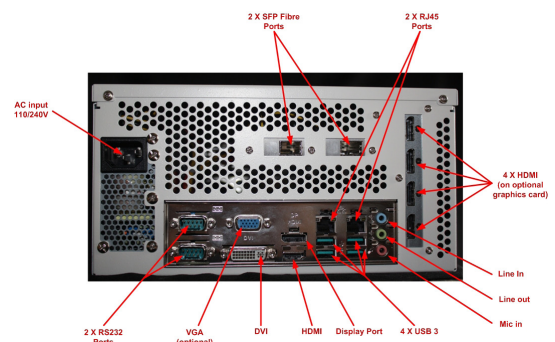
Model ZX8-CM1-50-xx	
Storage	Removable SSD, 2 Bay 2.5" SSD (minimum 240Gb)
Fibre LAN Connection	2 X Intel I210-AT interfaces via 2 X Gigabit Media Converter
USB	USB 3.1/2.0 (4 ports on rear 2 on the front)
Operating System	Windows 10
Weight	6.2 kg
Dimensions	W 250mm x D 314mm* x H 127mm (* includes caddies).
Construction	Ruggedised zinc plated steel chassis (with interlocking lid) and chassis keylocks
Ordering information	Louvar ZX8-CM1-50-i 7 (i7-8850H)
External PSU	ATX Flex Input 100V-240V AC, 220W

either one or two system cooling fans may be used depending on application.

## Certification

Shock	DEFSTAN 08-120 & BRs 8470-8473
Vibration	DEFSTAN 08-123 data sheet 25 and BR3021 Part II
EMC	DEFSTAN 59-411, EN 55022, EN 55024, EN 6100
Tempest	NATO SDIP 27, Level B - (on request)
Pressure	DEFSTAN 08-123 data sheet 14
Environmental Conditions	DEFSTAN 08-123
Safety	EN62368-1 (2014/35/EU)
CE	European CE mark.

## Technical Details



Rear panel of ZX8

For a more complete list of certifications, please refer to the data-sheet or contact us: [technical@primarynetworks.co.uk](mailto:technical@primarynetworks.co.uk)