PRIMARY NETWORKS

LOUVAR ZX7
Defence Certified Fanless Embedded Computer

Intel 7th Gen Core Duo, 7100 series processor

KEY BENEFITS

- Fully certified for defence applications to include shock, vibration, EMC and environmental.

- Powerful Intel 7th Gen Core Duo ™ Processors, with a choice of i3, i5 and i7 with DDR4 memory up to 32 GB.

- Recommended for Naval fleets with all sizes of vessels including submarines.

- Suitable for ships communication networks including crews' quarters and bridge with exceptionally low noise and a high reliability design.

- Extremely compact but with excellent cool running operation.

- Data security and integrity for red and black networks using fibre connectivity and Tempest approvals.

- Unique removable SSD drawer and locking system allows data to be removed and stored securely.

- Customised configurations available.

The Louvar ZX7 replaces the highly successful ZX5 as a stable and reliable platform for the Navy. Choose between the ZX6 (for Win 7 and 10 applications) or the ZX7 (for Windows 10 only).

The Louvar ZX7 is the latest in high performance, 7th generation processing using the Intel 7000 series processor. It offers a highly engineered, compact 'defence certified' computer for naval ships and land based secure locations around the world. It can be easily deployed around the ship in areas such as the bridge or general crew's quarters.

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

The quiet mode operation with low power and excellent cooling design enables flexible configurations in compact spaces without overheating issues. With a choice of cpu and connectivity options, the ZX7- is the ideal choice.

intel CORE i3 7th Gen

Model ZX7-xx

Unique removable SSD drawer and locking system

fibre port for added security

stackable modular flexible configuration using approved brackets. (Note ZX3 illustrated)

vertical mounting using custom sleeve with secure mounting.

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

Rugged, Compact, Defence Compliant, Fanless Computing

Specifications

Model ZX7-xx

CPU	Intel® Core 7th generation embedded CPU i3-7100U 3MB Cache 2.4 GHz
Memory	16 GB DDR 4 SO-DIMM expandable up to 32GB RAM (Max)
Hard drives / Disks	120GB SSD SATA 3 (6Gb/s) 2.5" format drive
Graphics	Integrated Intel HD Graphics 620 2 x Display Port dp++ Capable of Dual monitor support
LAN	On board Intel 1 x Gigabit PHY i219LM, 1 x Gigabit i211-AT via 2 x RJ45 LAN
USB	6 USB 2.0/3.0 2 x USB 2.0 ports (Front Panel) 4 x USB 3.0 ports (Rear I/O Panel)
Expansion	1 X PCI x4 Slot , 1 x Full/Half size Mini PCIe slot, M2 Key B 2242/3042 connector
Serial Port	1 x Serial Port COM 1
Audio	High Def Realtek ALC 888S 7.1 channel. Mini Jack 3.5 Headphones and Microphone
Fibre	See options panel
Operating System	Windows 10, optional Linux

Model ZX7-xx

Power supply	External AC Power Adapter
Input Voltag	12-24VDC
Mounting	Desk mount brackets. optional stacking brackets. optional rack mount.
Dimensions	64mm H x 226mm W x 306mm D
Weight	3.4Kg steel chassis
Construction	Ruggedised zinc plated steel chassis (with interlocking lid) and chassis keylock
Operating Temp.	0 to +60 deg C
Storage Temp.	minus 20 deg C to +70 deg C
Certification	see separate panel below.
Ordering Information	Louvar ZX7-CO3-50-i3 Defence certified computer with i3-7100U 2.4 GHz CPU
Optional Accessories	19 inch rack mounting kit Desk mounting kit Stacking kit. i5-7300U 2.6 to 3.5 GHz CPU i7-7600U 2.8 to 3.9 GHz CPU Hard Drive upgrade to 240GB or 480GB capacity Fibre Options: PCIe Gigabit plug in card or Media Converter Gigabit via Mini PCIe LAN Card both with (SC, ST or LC Connectors options)

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

Photos are for illustration purposes and should not be relied upon for product accuracy. Please contact our technical department for further details.

Certification

Shock	Def Stan 08-123:2012 Datasheet 28
Vibration	DEF STAN 08-123:2012 Datasheet 25
Safety	IEC/EN 62368-1:2018
Lloyds	Lloyds Type approval (Certificate No. LR22461117TA)
EMC	EN 55032, EN 55035, IEC 60945 Def-Stan 59-411 A2:2014, Sea Below Decks
Markings	UKCA & CE

NATO stock No.	7010-99-330-3327
Tempest	designed to meet NATO SDIP27, Level C min and SDIP level B *

*Emissions are dependent on peripherals used. A full tempest test at a certified testing facility is advised for specific systems and configurations.

Technical Details

Rear panel of ZX7-xx

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