

X700 Smart Displays

High-performance, multi-function, ruggedized Smart display for fighting vehicles and main battle tanks



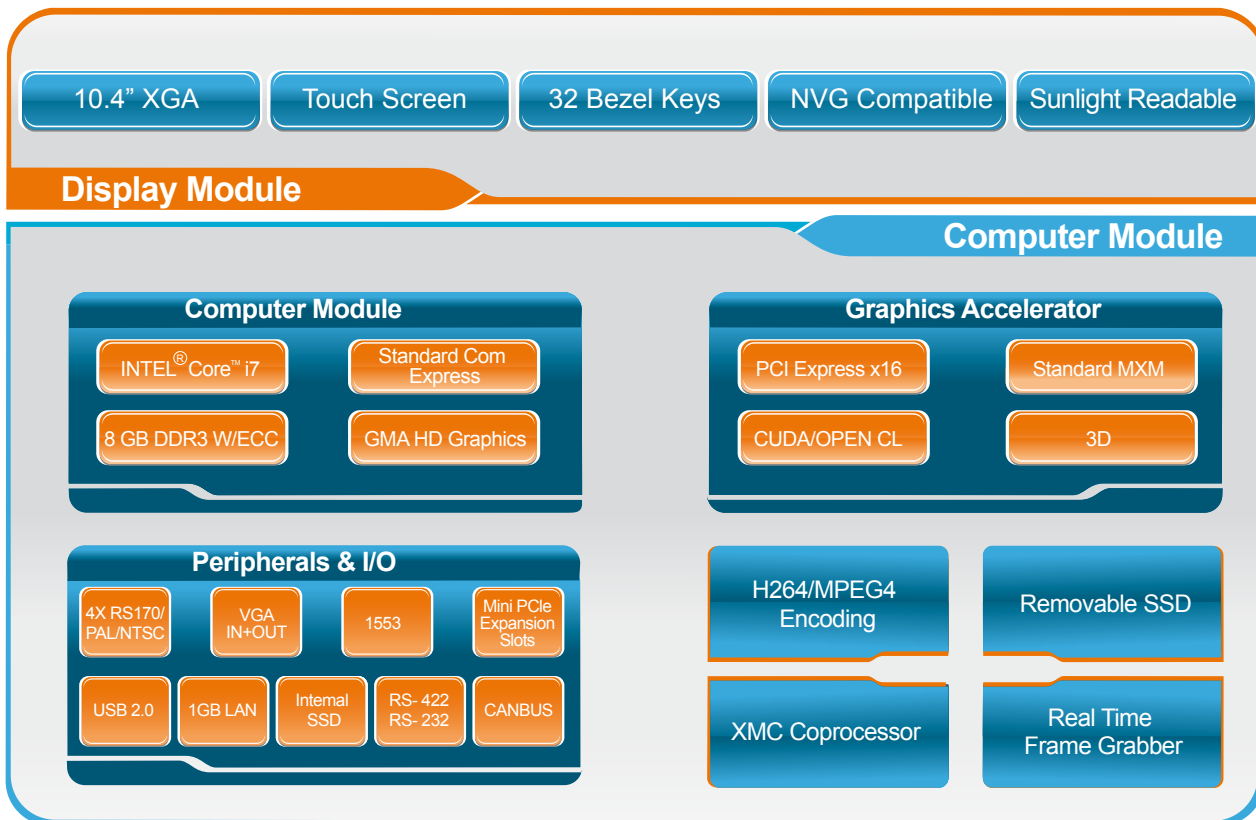
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Overview

New from Elbit Systems – The X700 Family - a state-of-the-art smart display for tactical wheeled vehicles (TWV), armored fighting vehicles (AFV) and main battle tanks (MBT). As a compact, fully integrated unit – incorporating advanced computing power with a high-resolution display – the X700 Family offers the best size, weight and power (SWAP) parameters in its class. Moreover, the line of products provides the crew member with a unique tool to enhance situational awareness and improve operational efficiency

The Ultimate Modular and Scalable Architecture



Features and benefits

- High Brightness and Contrast for direct Sunlight visibility
- Extra wide viewing angles with uniform brightness and broad color gamut
- Optimized electronics for enhanced image quality for both digital graphics and sensor imagery
- Ruggedized for severe applications including Nuclear hardening.
- Passive Cooling - no forced air required, no fans.
- Extensive picture in picture and video overlay capabilities
- Multiple Input Devices: Touch Screen, USB, Bezel Keys, Stylus, Mouse, Keyboard
- Stand alone Graphics Accelerator Card for High graphics performance and 3D application
- Enhanced NVG (night vision goggles) compatibility
- Support Windows/Linux Operating systems
- Operation over extended temperature range (-46°C to +71°C)
- Ruggedized Touch screen (Boot & Wrench impact resistant capabilities)

Operational Benefits

Improved Situational Awareness

X700 Series Incorporates information from multiple sensors, high-resolution video and advanced command and control applications in order to provide a highly accurate picture of the battlefield

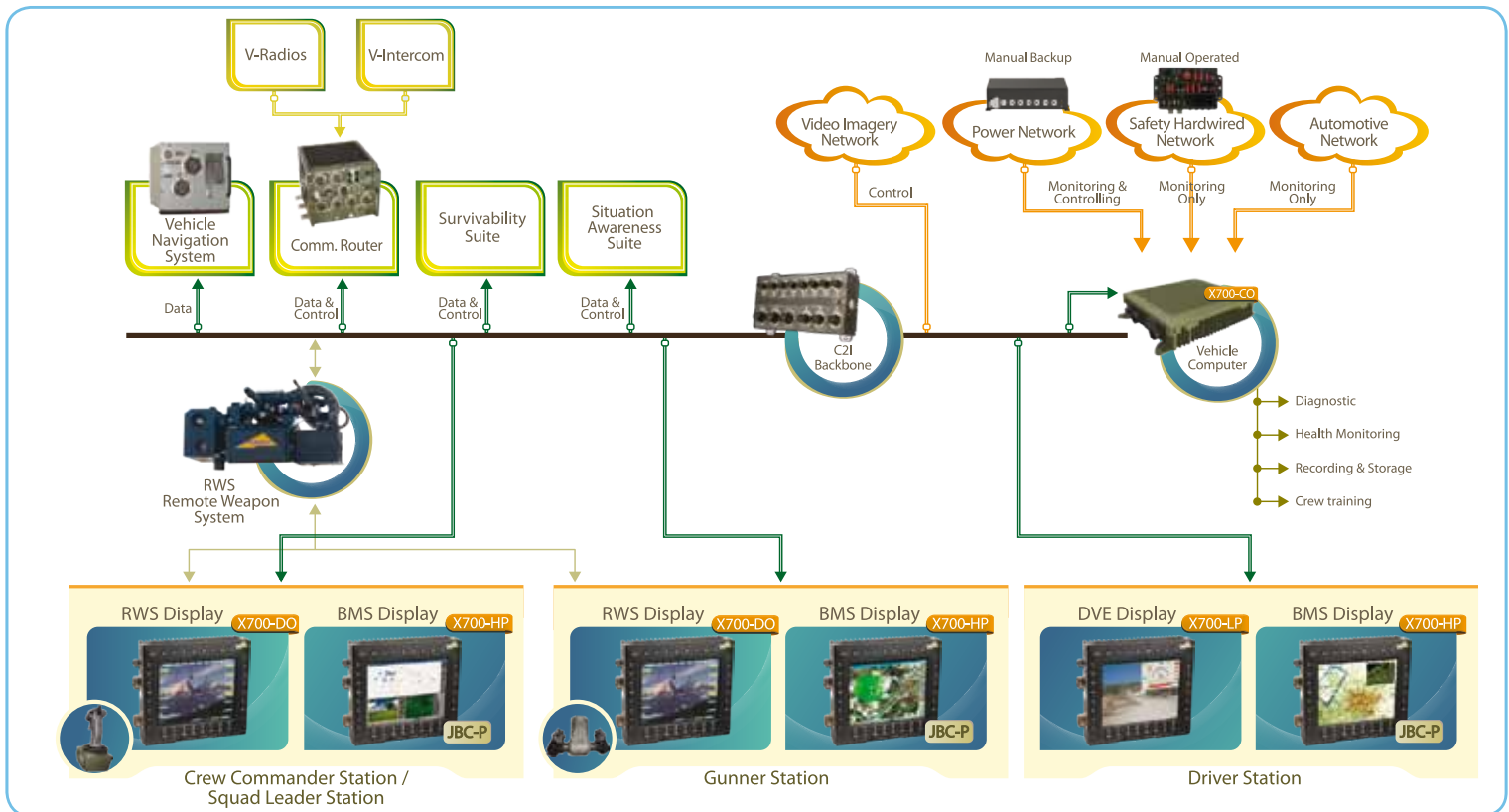
Increased Operational efficiency

X700 Family Allows the operator to display only mission-critical information at any given time, shortening response times and enabling timely decision making

Platforms C4ISR Architecture

In modern warfare, network connectivity becomes a key factor for operational effectiveness. X700 Family is major building block in any platforms C4ISR Architecture that ensures high levels of integrity are achieved between add on systems and platforms, introducing mission efficiency, platform in service long life cycle and reduced maintenance overall cost.

X700 Series In C⁴ISR Vetric Architecture



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Technical Information

		X700-DO	X700-LP	X700-HP	X700-CO
X700	Characteristics	Display Only	Low Power Smart Display	High Performance Smart Display	High Performance Computer Only
Processor Unit	CPU	N/A	Intel® Atom™ 2x 1.66GHz	Intel® Core™ i7 2x 1.06GHz	Intel® Core™ i7 2x 1.06GHz
	L2 Cache	N/A	1MB	4MB	4MB
	Memory	N/A	4GB DDR2	8GB DDR3 w/ECC	8GB DDR3 w/ECC
	Graphics	N/A	Integrated Intel GMA 3150	Integrated Intel GMA HD	Integrated Intel GMA HD
	Hard Disk	N/A	Removable 64 GB SSD (SATA)	Removable 128 GB SSD (SATA)	Removable 128 GB SSD (SATA)
	Audio	N/A	HD Audio	HD Audio	HD Audio
	OS Support	N/A	Windows, Linux	Windows, Linux	Windows, Linux
Video & Graphics	16 Lane PCI Express Graphic Controller (MXM)	N/A	N/A	ATI 4690E/ NVIDIA FX880M	ATI 4690E/ NVIDIA FX880M
	RS170/NTSC/PAL Input	4	4	4	4
	VGA (support Sync On Green)	1 x Input, 1x Out	1 x Input, 1x Out	1 x Input, 1x Out	1 x Input, 1x Out
	Graphical Overlay (Symbology over Video)	Y	Y	Y	Y
	PiP (Picture in Picture)	Y	Y	Y	Y
	Video Encoder	N/A	2 Sources	2 Sources	2 Sources
Interfaces	Ethernet	N/A	10/100/1000 MBit	2x 10/100/1000 MBit	2x 10/100/1000 MBit
	USB 2.0	N/A	2	3	3
	Serial	N/A	3x RS-232/ 2x RS-422	3x RS-232/ 2x RS-422	3x RS-232/ 2x RS-422
	Mini PCI Express Slot	N/A	2	2	2
	MIL 1553	N/A	1x MIL-STD-1553B	1x MIL-STD-1553B	1x MIL-STD-1553B
	CANBUS	N/A	2x CANBUS 2.0	2x CANBUS 2.0	2x CANBUS 2.0
	Resolution	1024 x 768 (XGA)	1024 x 768 (XGA)	1024 x 768 (XGA)	N/A
Size/Viewing Area	10.4 inch	10.4 inch	10.4 inch	N/A	
Contrast	1200:1 (typical)	1200:1 (typical)	1200:1 (typical)	N/A	
Brightness/Dimming Range	>200 fL to <0.02 fL	>200 fL to <0.02 fL	>200 fL to <0.02 fL	N/A	
Viewing Angle	> 80° all axis	> 80° all axis	> 80° all axis	N/A	
NVIS Compatibility	MIL-L-85762A	MIL-L-85762A	MIL-L-85762A	N/A	
Touch screen	Resistive Touch	Resistive Touch	Resistive Touch	N/A	
Bezel	32 Keys w/ 4 Cursor Customizable	32 Keys w/ 4 Cursor Customizable	32 Keys w/ 4 Cursor Customizable	N/A	
Environmental	Operating Temperature	-46°C to +71°C	-46°C to +71°C	-46°C to +71°C	-46°C to +71°C
	Storage Temperature	-51°C to +85°C	-51°C to +85°C	-51°C to +85°C	-51°C to +85°C
	Vibration/Shock	Tracked/Wheeled Vehicles	Tracked/Wheeled Vehicles	Tracked/Wheeled Vehicles	Tracked/Wheeled Vehicles
	Submersion / Steam / Water Jet	Y	Y	Y	Y
	Boot/Wrench	Y	Y	Y	Y
	Nuclear	Y	N	Y	Y
	Environmental	MIL-STD-810F	MIL-STD-810F	MIL-STD-810F	MIL-STD-810F
EMI / EMC	MIL-STD-464A MIL-STD-461F	MIL-STD-464A MIL-STD-461F	MIL-STD-464A MIL-STD-461F	MIL-STD-464A MIL-STD-461F	
Physical / Power	28V Input Power	MIL-STD-1275A/B	MIL-STD-1275A/B	MIL-STD-1275A/B	MIL-STD-1275A/B
	Size	11.25"W, 10"H, 3"D	11.25"W, 10"H, 3"D	11.25"W, 10"H, 3"D	11.25"W, 10"H, 3"D
	Weight	<15 lbs	<15 lbs	<15 lbs	<15 lbs
	Connectors	D38999/Sealed	D38999/Sealed	D38999/Sealed	D38999/Sealed



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