ONYX-Datalink

The ideal rugged processor platform for your Tactical Data link system



Through the secure networking of sensors, platforms and systems, operational decision-makers are able to co-ordinate and maximize battlefield effects. ECRIN Systems is a key supplier of the enabling technologies, including link-11 (NTDS & ATDS), -16 (1553B & Ethernet) and -22 (Ethernet TCP/IP), which optimize the warfighter's effectiveness by facilitating the timely dissemination of situational awareness and communications data across the battlespace. ONYX-Datalink secure tactical data link "Ready to Application" product can be embedded on helicopters, fixed-wing aircraft, MALE and Tactical UAS, surface ships and submarines. This multi-link processor bare borne provides a compact, single LRU, innovative and versatile solution to single or multiple tactical data link operations with control/command capabilities.

Qualified ONYX-Datalink profiles slash design risk, lower costs and speed deployment thanks to risk-lowering of proven technology, stress tests passed for maximum loads, saving up to \$60,000 and 2 months campaign.

ONYX-Datalink profile is based on modular mezzanines concept that offers customer a large flexibility and Long Life Management with revision control. It employs cutting edge technology based on COM Express type 6 Intel® multi-core i7 processing capabilities plus a large number of embedded proven mezzanines, like XMC, PMC and miniPCI Express that will allow tailoring the configuration to exact customer's I/O requirements and suitable IP interface to host system.

- Supports Multi-Core INTEL i7 3rd, 4th and 6th Gen, evolutionary thanks to COM Express architecture with perspective of long terms availability
- > 1x DVI-D Single Link + 1x VGA
- > 2x XMC/PMC and 2* mini PCI Express sites for flexible avionics and industrial I/O expansion
- > 4x Isolated RS-422/RS-232
- > 1x USB 3.0 Full Specs with circular USB-Field connector
- > Cable-free, Fan less, MIL-DTL-38999 circular connectors
- > Real cold start at -40°C and up to +71°C Operating Temp (depend on configuration and cooling system)

- Standard BOM Qualified DO-160F and MIL-STD-810G/461F/1275D/704
- > IP-67 Ingress
- > High flexibility to Modified COTS Services (functions and connectors)
- > ITAR free without Export Control
- > Long Life Management with revision control



System specifications			
Processor Module	COM-Express Basic Size		
Processor 6 th Generation Intel			
	Xeon® E3-1505L v5 2.0/2.8GHz (Turbo), 0.35-1.0GHz (Graphics), 8M, 25W (4C/GT2)		
	Core™ i7-6822EQ 2.0/2.8GHz (Turbo), 0.35-1.0GHz (Graphics),	8M, 25W (4C/GT2)	
Memory	Dual channel 1867/2133 MHz DDR4 memory up to 32GB		
Processor 4 th Generation Intel	4 th Generation Intel [®] Core™ i7 Processors (Mobile) - 22nm ("	Haswell")	
	i7-4860EQ 2.4 GHz (3.2 GHz Turbo), 47W (4C/GT3)		
	i5-4400E 2.7 GHz (3.3 GHz Turbo), 37W (2C/GT2)		
	i5-4402E 1.6 GHz (2.7 GHz Turbo), 25W (2C/GT2)		
Memory	Dual channel with ECC 1600/1333 MHz DDR3L memory up to		
Processor 3 rd Generation Intel	3 rd Generation Intel [®] Core™ i7/i3, 22nm process, ("Ivy Bridge	")	
	i7-3612QE 2.1GHz, 6MB L3 cache, 35W, quad core		
	i7-3555LE 2.5GHz, 4MB L3 cache, 25W, dual core		
Maman	i7-3517UE 1.7GHz, 4MB L3 cache, 17W, dual core		
Memory	Dual channel ECC 1600 MHz DDR3 memory up to 16 GB		
Video outputs (Intel HD Graphic)	1x VGA* + 1x DVI-D Single Link		
Other video Inputs / Outputs	Using miniPCle board		A B C D E
Ethernet	3x 10/100/1000 BaseT		
Serial	2x Isolated RS232 - 2x Isolated RS422		
USB 2.0	2x Isolated USB2.0 Full / Low speed		
	2x USB2.0 High / Full / Low speed		
USB 3.0 (38999 USB Field)	Full USB3.0 specifications, on rear panel		
Audio	Intel® High Def Audio: 1x In and 1x Out Lines		F
Discret I/O	4x Isolated Inputs 4x Isolated Outputs		
	Ax isolated outputs Reset, Power Button, Power Led, HDD Led, Fast Erase		A: Power supply D: PMC I/O's B: USB, Serial, GPIO, E: PMC I/O's
I/O Expansion slots	1x XMC/PMC slot + 1x PMC slot		DVI-D + VGA F: Ground
	2x miniPCle slots		C: Ethernet, Audio
Solid State Disk (SSD) (Internal)	1x SSD 2.5" slot (MLC or SLC) - 1x cFast slot (MLC or SLC)		
Hardware monitoring	Voltages, CPU, GPU, and carrier board temperatures		
Watchdog timer	Programmable timer range to generate RESET		
	Trogrammable timer range to generate RESET		
Power supply			
Power Input	+28VDC (+10VDC up to +36VDC)	120	
	Hold-up capacitors for momentary power interruption protection	ion (approx izums)	
Power consumption	MIL-STD-1275D / DO-160F / MIL-STD-461F / MIL-STD-704 Less than 90W		
SWaP-C constraints			
Size (WxDxH)	270mm x 250mm x 88mm (2U)		
Weight			
Cooling type	7kg		
	Convection & radiation by fins, conduction by cold plate (co	onduction cooled inside)	
Connectors	Convection & radiation by fins, conduction by cold plate (co Military circular IP67 locking connectors (MIL-DTL-38999)	onduction cooled inside)	
Connectors	Convection & radiation by fins, conduction by cold plate (co Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application	onduction cooled inside)	
Connectors Environmental Qualification Tests	Convection & radiation by fins, conduction by cold plate (co Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application		
Connectors Environmental Qualification Tests Operating temperature	Convection & radiation by fins, conduction by cold plate (co Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application -40°C / +71°C (depend on configuration and cooling system)	Salt fog	50% salt spray / 96h (D0-160F)
Connectors Environmental Qualification Tests Operating temperature Storage temperature	Convection & radiation by fins, conduction by cold plate (cc Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application -40°C / +71°C (depend on configuration and cooling system) Storage: -40°C / +85°C	Salt fog Dust	Wind and fine dust particles (DO-160F)
Connectors Environmental Qualification Tests Operating temperature Storage temperature Ingress protection rating	Convection & radiation by fins, conduction by cold plate (cc Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application -40°C / +71°C (depend on configuration and cooling system) Storage: -40°C / +85°C IP67	Salt fog Dust Operating shock & vibration	Wind and fine dust particles (DO-160F) MIL-STD-810G / DO-160F
Connectors Environmental Qualification Tests Operating temperature Storage temperature Ingress protection rating Altitude	Convection & radiation by fins, conduction by cold plate (cc Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application -40°C / +71°C (depend on configuration and cooling system) Storage: -40°C / +85°C IP67 Up to 15000 feet (D0-160F)	Salt fog Dust Operating shock & vibration EMI / RFI	Wind and fine dust particles (D0-160F) MIL-STD-810G / D0-160F MIL-STD-461F / D0-160F
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Connectors Environmental Qualification Tests Operating temperature Storage temperature Ingress protection rating Altitude Humidity	Convection & radiation by fins, conduction by cold plate (cc Military circular IP67 locking connectors (MIL-DTL-38999) Front panel customizable for specific application -40°C / +71°C (depend on configuration and cooling system) Storage: -40°C / +85°C IP67 Up to 15000 feet (D0-160F)	Salt fog Dust Operating shock & vibration EMI / RFI	Wind and fine dust particles (D0-160F) MIL-STD-810G / D0-160F MIL-STD-461F / D0-160F EMC: 2014/30/UE ; EN 61000-6-2, EN55022, EN 55024
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