



INTERFACE CONTROL DOCUMENT

SR800-D21A20 ICD

2024.03.08

CHANGE RECORD

Date	Version	Description of change	Primary author
2024/03/08	1.0	Initial version	Vinnie Yuan

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SR800-D21A20

INTERFACE CONTROL DOCUMENT (ICD)

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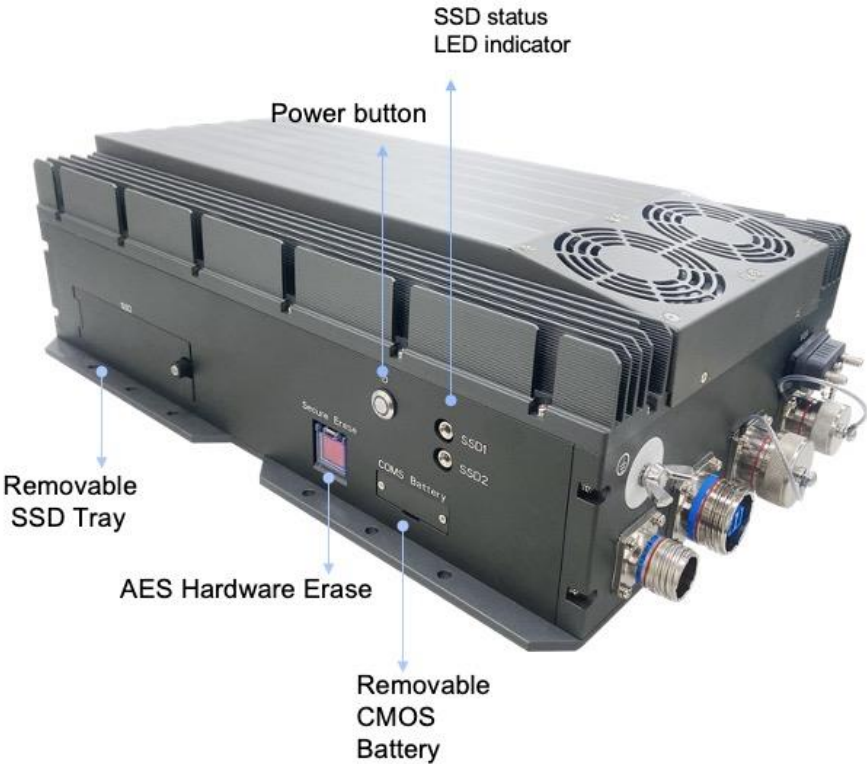
APPROVED BY: James Chan Date: 2024/03/18

<Name> James Chan
CTO

1 Scope

System Configuration	
Motherboard	Supermicro X11SDV-16C-TP8F
CPU	Intel® Xeon D-2183IT (2.2Ghz, 100W, 22MB)
PCH	Intel Skylake D
RAM1	Samsung DDR4 2400 32GB
RAM2	Samsung DDR4 2400 32GB
RAM3	Samsung DDR4 2400 32GB
RAM4	Samsung DDR4 2400 32GB
GPU	Nvidia A2000 8GB GDDR6 CUDA Cores 2560
SATA 1	2.5" MLC AES 2TB SSD
SATA 2	2.5" MLC AES 2TB SSD
LAN 1	Intel® 10 Gigabit Ethernet
POWER	DC-DC 18V to 36V (300W Max) MIL-STD-461
Dimension	432(D) x 281 (W) x 138 (H) mm
Weight	15Kg(33.06lbs)
Chassis	Aluminum Alloy, Corrosion Resistant
Finish	Anodic aluminum oxide
Cooling	Natural Passive convection/Conduction with IP65 Active Fans
Ingress Protection	IP65

1-1 Identification



1-2 System Overview

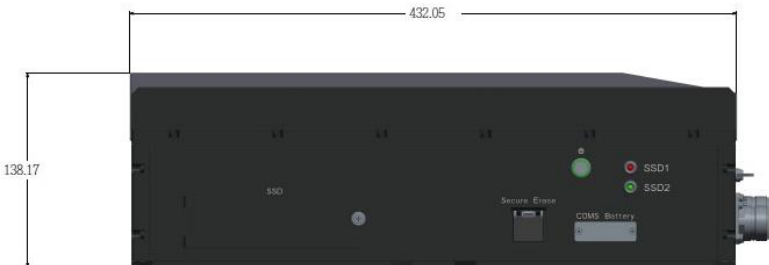
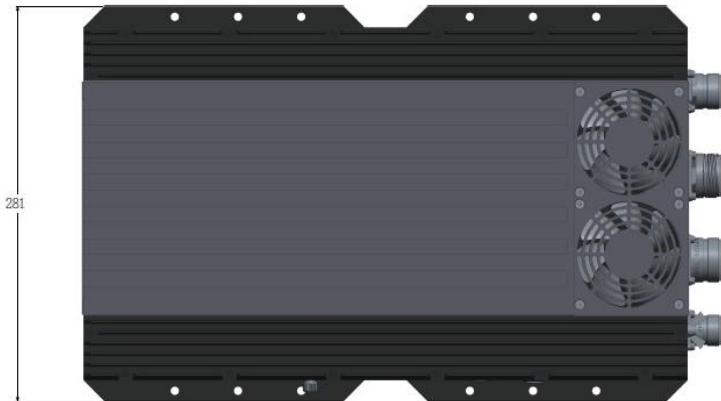
FRONT AND SIDE I/O

X1(DC-IN)	1 x Amphenol TVPS00RF-13-4P
X2(10GbE)	1 x Amphenol LCFTV20NN
X3(1GbE)	1 x Amphenol RJFTV6A2A1N
X4 (USB3.0)	1 x Amphenol USB3FTV2AN
VGA	D-sub15 connector with waterproof cap
Button	1 x Power Switch with Dedicated LED
SSD Tray	2 x Dual 2.5" HDD/SSD Easy Swap Tray Dedicated LED
Dedicated LED	2 x Red/Green LEDs (SSD)
Secure Erase Button	1 x AES hardware erase button
Ground stud	

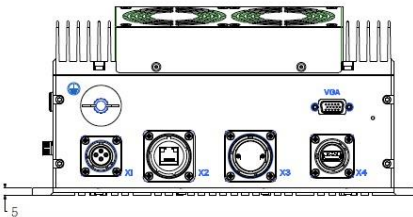
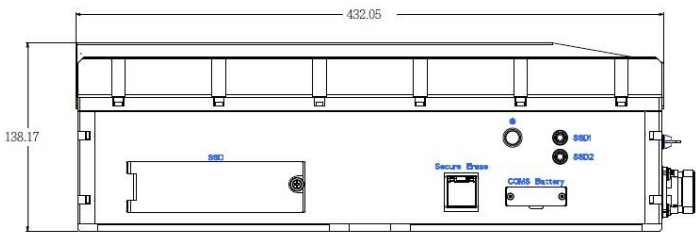
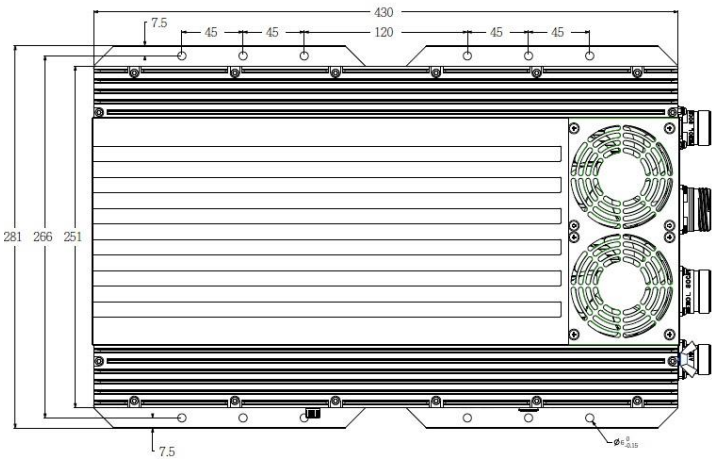
POWER REQUIREMENT

Power Input	DC-DC 18 to 36V (300W max) MIL-STD 461
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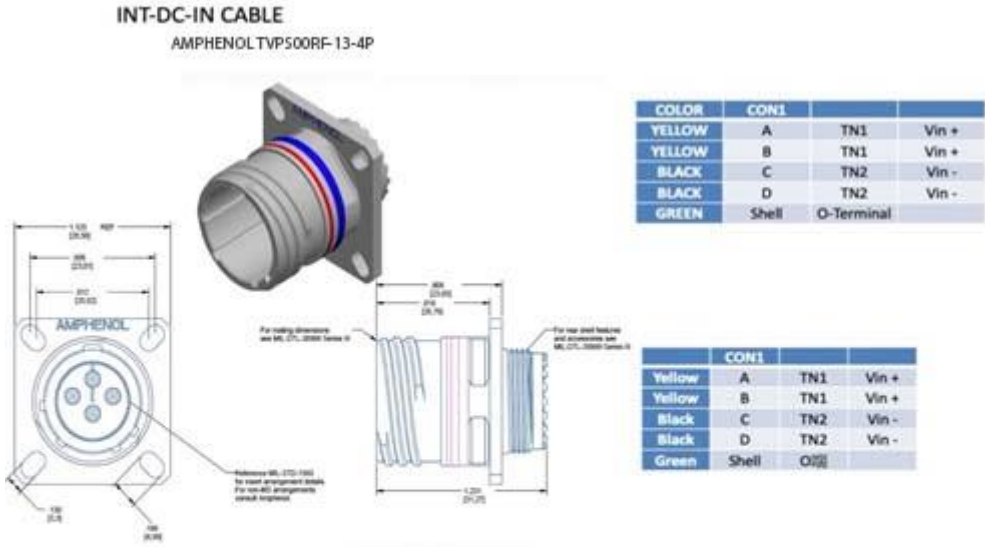
1-3 SR800-D21A20 2D Dimension



1-4 dimensioning of the mounting hole locations

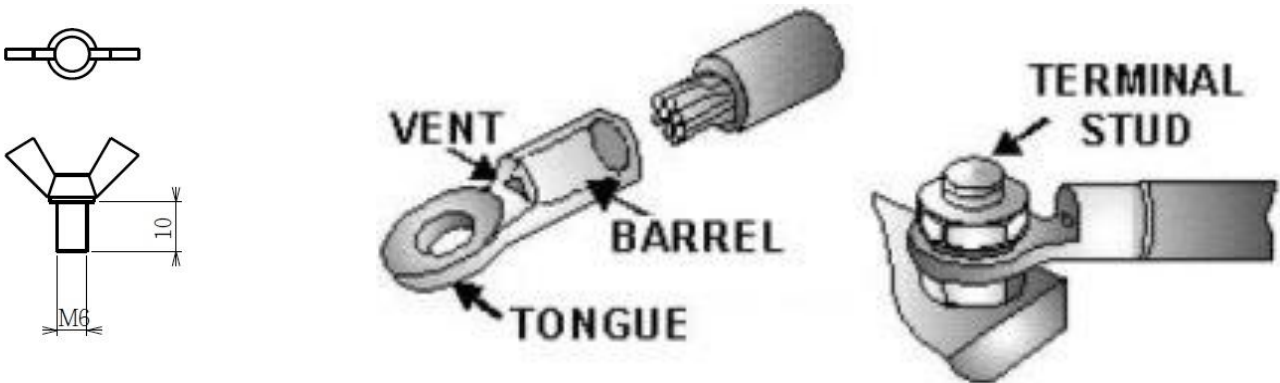


1-5 SR800-D21A20 D38999 Cable define



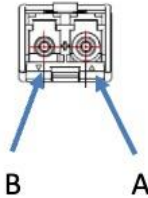
1-6 Ground Stud (Wing Screw M6 L:10mm), Guidelines

Grounding to chassis: Ground connection to an electrically conductive chassis or frame should be mechanically secured by soldering to a spot-welded terminal lug or to a portion of the chassis or frame that has been formed into a soldering lug, or by use of a terminal on the ground wire and then securing the terminal by a screw, nut, and lock-washer. The screw should fit in a tapped hole in the chassis or frame or it should be held in a through-hole by a nut. When the chassis or frame is made of steel, the metal around the screw hole should be plated or tinned to provide a corrosion resistant connection.

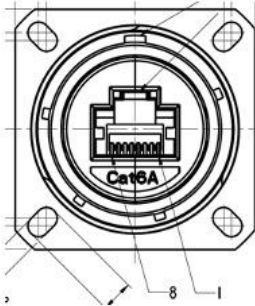


1-7 X2 10GbE (LC Fiber), X3 1GbE, X4 USB3.0

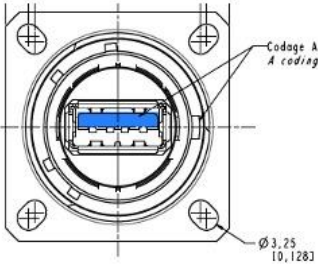
Amphenol LC fiber (LCFTV20NNN)



Amphenol RJ45



Amphenol USB3.0



2 SR800-D21A20 Environmental Condition

Environmental Condition

MIL-STD-810 Test	Method 507.5, Procedure II (Temperature & Humidity) Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock)
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program.
MIL-STD-461G Test	CE102 10KHz-10Mhz CS101 30Hz-150KHz CS114 10KHz to 200MHz, curves 3&4 CS115 bulk cable injection, impulse excitation CS116 "damped sinusoidal transients, cables and power leads, 10KHz to 100MHz" RE102 10KHz-18GHz RS103 2Mhz to 18GHz, 50V/m
EN61000-4-2	EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-4: Signal and DC-Net: 1 kV EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 EN 55022, Class A EN 61000-4-3: 10V/m
CE	EN55032:2015 + A11:2020 Class A CISPR32:2015. (Ed 2.0) +C1:2016 BS EN55032:2015 + A11:2020 EN IEC 61000-3-2: 2019 + A1: 2021 BS EN IEC 61000-3-2: 2019 + A1: 2021 EN 61000-3-3: 2013 + A1:2019 + A2:2021 BS EN 61000-3-3: 2013 + A1:2019 + A2:2021 EN 55035: 2017 + A11: 2020 BS EN 55035: 2017 + A11: 2020 IEC 61000-4-2: 2008; IEC 61000-4-3: 2020 (Ed. 4.0) IEC 61000-4-4: 2020; IEC 61000-4-5: 2014 + A1: 2017 IEC 61000-4-6: 2013 + COR1: 2015; IEC 61000-4-8: 2009 IEC 61000-4-11:2020 + COR1: 2020 + COR2: 2022 (Ed. 3.0)

Note: The SR800-D21A20 has passed the pre-scan compliance test. However, we do not have a full compliance report available at the moment. If you require a comprehensive compliance scan and report, please contact our sales representative for further assistance. They will be able to guide you through the process of obtaining the complete compliance report.