VMS

KEY FEATURE

- REAL-TIME OBJECT DETECTION AND TRACKING WITH JETSONAGX ORIN 275 TOPS
- INTEGRATE THE VMS WITH ACCESS CONTROL SYSTEMS TO PROVIDE SEAMLESS SECURITY MANAGEMENT
- DESIGN THE VMS TO BE SCALABLE AND HIGHLY AVAILABLE, ALLOWING FOR DEPLOYMENT IN LARGE-SCALE SURVEILLANCE SYSTEMS.
- PERFORM DISTRIBUTED COMPUTING OVER ETHERNET AND PROVIDE MULTIPLE SYNCHRONIZED DISPLAYS.
- INCLUDE HIGHLY CUSTOMIZED I/O TO MEET DIVERSE AI DESIGN REQUIREMENTS.
- LEVERAGE THE EDGE COMPUTING CAPABILITIES OF NVIDIA JETSON AGX TO PERFORM AI PROCESSING DIRECTLY ON THE EDGE DEVICE, REDUCING LATENCY AND BANDWIDTH USAGE.
- WITHSTAND HARSH ENVIRONMENT AND TESTED BY MIL-STD-810H
- EMC COMPLIANT WITH MIL-STD-461G
- POWER DESIGN COMPLIANT WITH 1275E

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SPECIFICATIONS

SYSTEM	JETSONAGX ORIN 275 TOPS 12-CORE ARM® CORTEX®-A78AE V8.2 64-BIT CPU 3MB L2 + 6MB L3 2048-CORE NVIDIA AMPERE ARCHITECTURE GPU WITH 64 TENSOR CORES
SYSTEM	150MM*248.92MM*335.28MM (CUSTOMIZATION)
OS	UBUNTU 20.04 LTS
STORAGE	M.2 2242 PCIE BY 4 (1TB) X 1
ENVIRONMENTAL	MIL-STD-810H CHANGE 1 SPECS • OPERATING TEMP : -40 TO +71ºC(METHOD 502.7/501.7) • STORAGE TEMP : -46 TO +81ºC (METHOD 502.7/ 501.7) • TEMPERATURE SHOCK TEST : 46 TO +81ºC (METHOD 503.7) • HUMIDITY : 5% TO 95% NON-CONDENSING (METHOD 507.6 PROC LI) • SHOCK: 40G OPERATING, 11MS (METHOD 516.8) • SHOCK: 75G NON-OPERATING 6MS (METHOD 516.8) • VIBRATION : METHOD 514.8 C-2/ C-4/ C-6, METHOD 514.8E-1 • OPERATING ALTITUDE : 20,000 FT (METHOD 500.6 PROC II) • STORAGE ALTITUDE : 40,000 FT (METHOD 500.6 PROC I) • SALT FOG : 5% 96 HRS (METHOD 509.8)
INTERNAL CARRIER BOARD I/O	INPUT (OPTIONAL): CAMERA LINK X 2 OR CVBS X 16 OR 3G-SDI X 8 OR CVBS X 8 AND 3G-SDI X 4 OUTPUT: HDMI X 1, 3G-SDI X 2,CVBS X 2 BIDIRECTIONAL TRANSMISSION: GPIO X 8, RS-232/RS-485 X 2, RS422 X 2, CAN BUS X 2, SPEAKER OUT/LINE IN X 1, USB3.2 X 3, ETHERNET(1GB) X 4
I/O INTERFACE & COMMUNICATION	INPUT: CAMERA LINK X 2, 3G-SDI X 8 OUTPUT: HDMI X 1, 3G-SDI X 2,CVBS(NTSC) X 2 BIDIRECTIONAL TRANSMISSION: GPIO X 8, RS-232/RS-485 X 2, RS422 X 2, CAN BUS X 2, SPEAKER OUT/LINE IN X 1, USB3.2(GEN 1 X 1) X 2, ETHERNET(1GB) X 4
POWER	16~40V DC 120WATT 80~120WATT POWER CONSUMPTION 28V WORKING VOLTAGE MIL-STD-1275E
EMC	MIL-STD-461G