



MITAC DIGITAL TECHNOLOGY CORP.

DP1

Rugged OT Network Appliance



Introduction

- Industrial Grade Din Rail Computer for OT Network
- Intel® Amston Lake x7835RE 12W 8-core SoC
- Up to 8x Isolated 2.5GbE with LAN Bypass & 2x SFP
- Support 4x Isolated RS-232/422/485, 4x DI & 4x DO
- M.2 3042/3052 support LTE/5G with 2x Nano SIM
- Dual DC Mains Input 9~36Vdc
- OCP, OVP, UVP & Reverse Power Protection
- Wide Operating Temperature -40°C ~ 70°C



Operating Temperature
(-40°C ~ 70°C)



TPM 2.0



Dual DC
9~36Vdc



LAN Bypass



Isolated
I/O Ports



5G+Dual SIM

I/O Interface

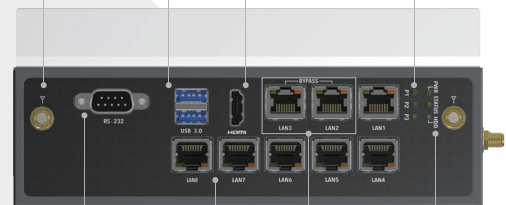
Model 1



2x Nano SIM

2x 9~36VDC
Input Power Failure
Alarm Output

Antenna 2x USB3.2 HDMI 3x Programmable LED



RS-232

8x 2.5GbE

LAN
Bypass

PWR/Status/HDD

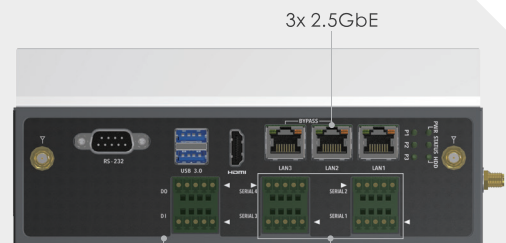
Model 2



2x 1G SFP

6x 2.5GbE

Model 3



3x 2.5GbE

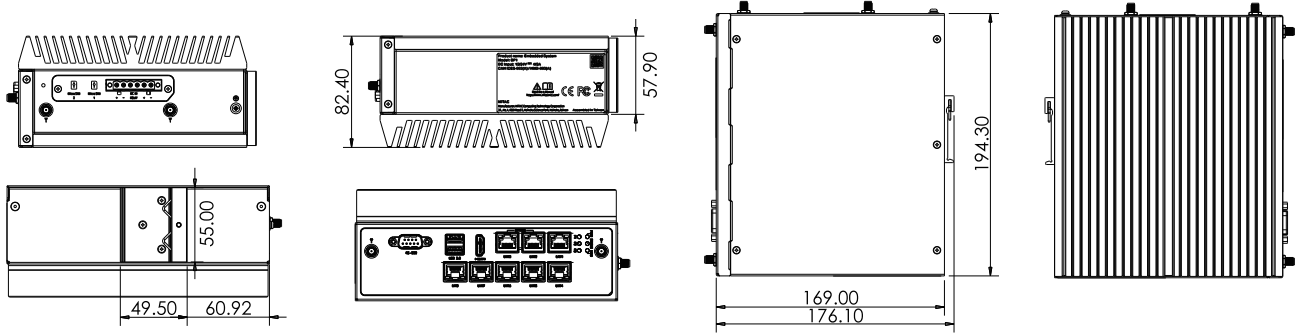
4x DI + 4x DO

4x RS-232/422/485

I Rugged OT Network Appliance

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I Dimension (mm)



SYSTEM			
Form Factor	Din Rail Mount Fanless Computer		
Processor	Intel® Atom x7000RE series processors (Code Name : Amston Lake) Intel® Atom Processor x7835RE, 8 Cores, 1.3~3.6GHz, 12W Intel® Atom Processor x7433RE, 4 Cores, 1.5~3.4GHz, 9W		
System Memory	1 x DDR4 SODIMM, Max. 16GB		
Graphics	Intel® UHD Graphics		
TPM	Infenion TPM2.0		
LED Indicator	1x PWR 1x STATUS 1x HDD 3x Programmable LED (Green/Yellow)		
Expansion Slot	1 x M.2 B-Key 3042/3052 (PCIe+USB3.1) for LTE/5G with dual SIM slot		
I/O	Model 1	Model 2	Model 3
HDMI	1 x HDMI 1.4 Type A, Support 1080P		
USB	2 x USB 3.2 Gen2 Type A		
Ethernet	8x Isolated Intel® I226-IT 2.5GbE RJ-45 (1 pair of GEN3 LAN Bypass)	6x Isolated Intel® I226-IT 2.5GbE RJ-45 (1 pair of GEN3 LAN Bypass)	3x Isolated Intel® I226-IT 2.5GbE RJ-45 (1 pair of GEN3 LAN Bypass)
Fiber	-	2x Intel® I210-ES 1G SFP	-
Storage	1x M.2 M-Key 2280 for SATA SSD or NVMe SSD 1x 2.5" SATA SSD		
USB	2x USB3.2 Type A 1x USB2.0 (Internal Pin Header)		
Serial Port	1x Isolated RS-232 D-sub (Support Console Output) 1x RS-232 onboard Pin-Header (Internal)	-	4x Isolated RS-232/422/485 Terminal Block 1x Isolated RS-232 D-sub (Support Console Output) 1x RS-232 onboard Pin-Header (Internal)
Digital I/O	-	-	4x Isolated Digital Input 4x Isolated Digital Output
POWER REQUIREMENT			
Power Input	Typical 12/24V DC Mains Dual Input (Input Range 9~36Vdc) with OVP(40V), UVP(7.3V), OCP(10A), Reverse Polarity Protection 6-pin terminal block for 2x DC input + 1x relay output (PWR failure alarm)		
MECHANICAL			
Thermal Design	Fanless		
Mounting	Din Rail Mount		
System Dimension	82.4mm(W) x 169mm(D) x 194.3mm(H)		
ENVIRONMENTAL			
Operating Temperature	-40°C ~ 70°C		
Operating Humidity	10% ~ 95% R/H (Non-condensing)		
OS			
OS Support	Windows® 11 64-bit IoT Enterprise 23/H2, Linux Kernel 5.15 or above		