AMD	**IGinX 0.7.2**	TPCx-IoT	2.1.1
		TPC Pricing	2.9.0
		Report Date	October 12, 2024

Total System Cost	TPCx-IoT Performance Metric	Price/Performance
2,410,085.23 CNY	**14,268,836.29 IoTps**	168.91 CNY/kIoTps

Servers	Operating System	Other Software	Availability Date
XFUSION 2258 V7	Red Hat Enterprise Linux 8.6	None	October 12, 2024

System Under Test Configuration Overview

NVIDIA MSN3700-CS2F 100GbE Switch
(32x QSFP28 Ports)

7x XFUSION 2258 V7

2x AMD EPYC 9654 96-Core Processor
24x 64GB (1536GB) Memory
1x 100GbE 2-Port Adaptor
1x 1GbE 2-Port Adaptor
1x 3.84TB SSD
1x 1.92TB SSD
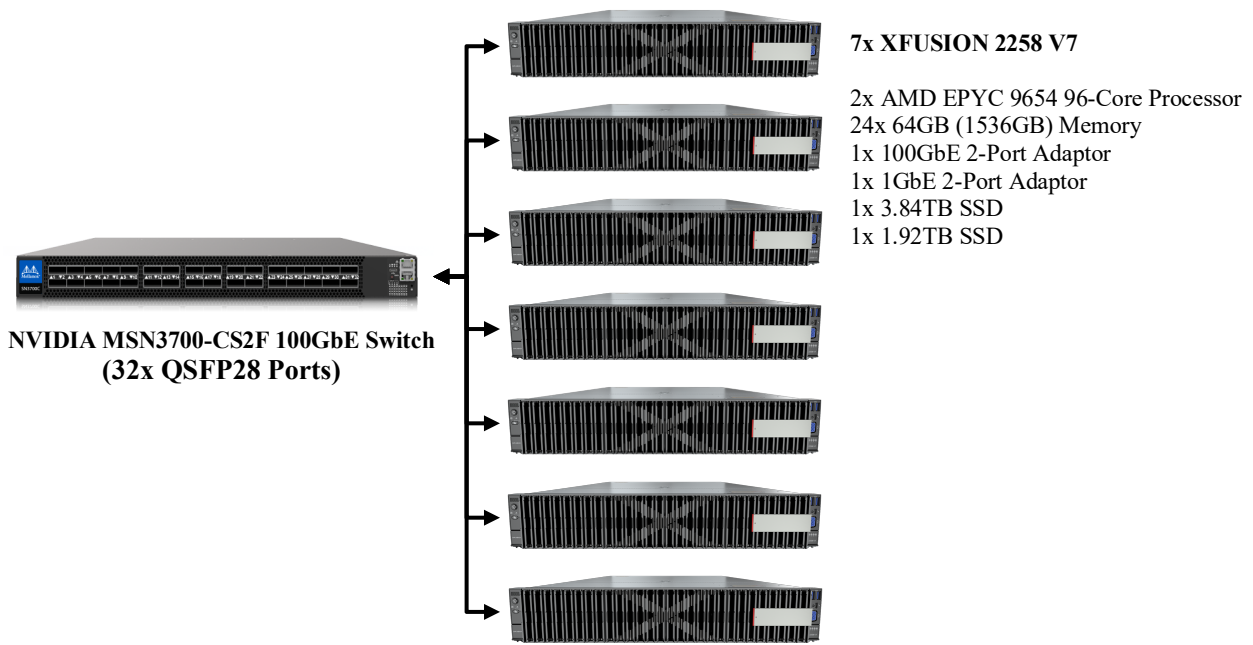
Total Servers:	7x
Total Processors/Cores/Threads:	14/1344/2688

Each Server Configuration	Processor	2x AMD EPYC 9654 96-Core Processor
	Memory：	1,536GB
	Storage Device:	1x Samsung PM1733 3.84TB 1x Samsung PM9A3 1.92TB
	Network:	1x Broadcom BCM957508-P2100G Dual-Port 100Gbps 1x Mellanox ConnectX-4 Lx 1Gbps
Connectivity	NVIDIA MSN3700-CS2F 100GbE Switch	
Total Rack Units:	(7x XFUSION 2258 V7) + (1x MSN3700) = (7x2) + (1x1) = 15 RU	

TPCx-IoT 2.1.1
Executive Summary

Tsinghua University
IGinX 0.7.2

Report Date
October 12, 2024

AMD	IGinX 0.7.2			TPCx-IoT		2.1.1
				TPC Pricing		2.9.0
				Report Date		October 12, 2024
Description	**Part Number**	**Source**	**List Price (CNY)**	**Qty**	**Extended Price (CNY)**	
Server Hardware						
XFUSION 2258 V7 2x AMD EPYC 9654 96-Core Processor 24x 64GB (1536GB) Memory 1x 1GbE 2-Port Adaptor 1x 3.84TB SSD 1x 1.92TB SSD	2258V7	3	-	7	1,542,349.75	
			Sub-Total		1,542,349.75	
Network						
NVIDIA MSN3700-CS2F 100GbE Switch	SN3700	1	134,330.00	1	134,330.00	
Dual-port 100G network adapter	P2100G	1	4,508.55	7	31,559.85	
5M QSFP 100G DAC cable	Q28-PC05	1	544.39	7	3,810.73	
			Sub-Total		169,700.58	
Software						
IGinX v0.7.2 Cluster Edition 7x24h Technical Support	-	2	486,000.00	1	486,000.00	
Red Hat Enterprise Linux Server, Premium (1 year)	-	4	10,096.90	21	212,034.90	
			Sub-Total		698,034.90	
			Total		2,410,085.23	

Price Sources: 1) Advanced Micro Devices, Inc. (AMD) 2) 北京市赛翼科技有限公司 (Beijing Saiyi Technology Co., Ltd.) 3) xFusion Digital Technologies Co., Ltd. 4) Red Hat Inc.	**Three-Year Cost of Ownership**	2,410,085.23 CNY
	IoTps	14,268,836.29
	CNY/kIoTps:	168.91

Prices used in TPC benchmarks must reflect the actual prices a customer would pay for purchase of the components in all regions specified in the result. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing conventions for the listed components. For complete details, see the pricing section of the TPC benchmark specification. If you find that stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

AMD	**IGinX 0.7.2**	TPCx-IoT	2.1.1
		TPC Pricing	2.9.0
		Report Date	October 12, 2024

Numerical Quantities

Scale Factor	35,000,000,000

Performance Run (Run1)

Warmup Run Start Time	2024-10-12 00:14:42
Warmup Run End Time	2024-10-12 00:52:27
Warmup Run Elapsed Time	2,264.643
Measured Run Start Time	2024-10-12 00:52:29
Measured Run End Time	2024-10-12 01:32:01
Measured Run Elapsed Time	2,371.514
Performance Metric (IoTps)	14,758,504.48

Performance Run (Run2)

Warmup Run Start Time	2024-10-12 02:09:32
Warmup Run End Time	2024-10-12 02:46:31
Warmup Run Elapsed Time	2,218.482
Measured Run Start Time	2024-10-12 02:46:34
Measured Run End Time	2024-10-12 03:27:27
Measured Run Elapsed Time	2,452.898
Performance Metric (IoTps)	**14,268,836.29**

TPCx-IoT 2.1.1
Executive Summary

Tsinghua University
IGinX 0.7.2

Report Date
October 12, 2024

AMD	**IGinX 0.7.2**	TPCx-IoT	2.1.1
		TPC Pricing	2.9.0
		Report Date	October 12, 2024

Performance Run Report (Run1)

```
================================================
TPCx-IoT Performance Metric (IoTps) Report

Test Run 1 details : Total Time For Warmup Run In Seconds = 2,264.643
Test Run 1 details : Total Time In Seconds = 2,371.514
                    Total Number of Records = 35,000,000,000

TPCx-IoT Performance Metric (IoTps): 14,758,504.48

================================================
```

Repeatability Run Report (Run2)

```
================================================
TPCx-IoT Performance Metric (IoTps) Report

Test Run 2 details : Total Time For Warmup Run In Seconds = 2,218.482
Test Run 2 details : Total Time In Seconds = 2,452.898
                    Total Number of Records = 35,000,000,000

TPCx-IoT Performance Metric (IoTps): 14,268,836.29

================================================
```

Summary details of the run reports are shown above. For the complete run reports, see the Supporting Files Archive.

TPCx-IoT 2.1.1
Executive Summary

Tsinghua University
IGinX 0.7.2

Report Date
October 12, 2024

AMD	**IGinX 0.7.2**	TPCx-IoT	2.1.1
		TPC Pricing	2.9.0
		Report Date	October 12, 2024

Revision History

Date	Edition	Description
October 12, 2024	First	Initial Publication

TPCx-IoT 2.1.1
Executive Summary

Tsinghua University
IGinX 0.7.2

Report Date
October 12, 2024