

ENTERPRISE X-SERIES

Engineered for the World's Fastest Data

PASCARI X201P

Sequential Read

Up to 14,800MB/s

Sequential Write

Up to 11,800MB/s

Random Read

Up to 3,300K IOPS

Random Write

Up to 1,050K IOPS

Interface

PCIe Gen5 x4

Capacity

Up to 30720GB

Form Factor

E3.S, U.2

DWPD

1



Product Features

- Power Loss Protection (PLP)
- TCG Opal 2.0 Support
- AES-XTS 256-bit Encryption
- End-to-End Data Path Protection
- Multiple Namespaces

Solutions – X201P (E3.S)

Form Factor E3.S				
Capacity ¹	3840GB	7680GB	15360GB	30720GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC
Performance ²³⁴				
Sequential Read (MB/s)	14800	14800	14800	14800
Sequential Write (MB/s)	4600	9200	11000	10000
4K Random Read (IOPS)	2700K	3300K	3000K	2800K
4K Random Write (IOPS)	220K	480K	580K	480K
Read Latency (Typ., µs)	65	65	65	65
Write Latency (Typ., µs)	150	80	65	75
Power Consumption ⁵				
Active (W)	25	25	25	25
Idle (W)	5	5	5	5
Endurance/Reliability				
DWPD ⁶	1	1	1	1
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5	2.5	2.5
Limited Warranty (years)	5	5	5	5
Temperature				
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Physical Dimension				
Length (mm)	112.75	112.75	112.75	112.75
Width (mm)	76	76	76	76
Height (mm)	7.45	7.45	7.45	7.45
Weight (g)	110 - 120	110 - 120	110 - 120	110 - 120
Part Number				
Single Port – ISE	XP20DH083T84P314T0910	XP20DH087T68P318T1910	XP20DH0815T3P3116T310	XP20DH0830T7P3132T710
Single Port – SED	XP20DH083T84P214T0910	XP20DH087T68P218T1910	XP20DH0815T3P2116T310	XP20DH0830T7P2132T710
Single Port – Non-SED	XP20DH083T84P014T0910	XP20DH087T68P018T1910	XP20DH0815T3P0116T310	XP20DH0830T7P0132T710
Single Port – FIPS	XP20DH083T84PF14T0910	XP20DH087T68PF18T1910	XP20DH0815T3PF116T310	XP20DH0830T7PF132T710
Dual Port – ISE	XX20DH083T84P314T0910	XX20DH087T68P318T1910	XX20DH0815T3P3116T310	XX20DH0830T7P3132T710
Dual Port – SED	XX20DH083T84P214T0910	XX20DH087T68P218T1910	XX20DH0815T3P2116T310	XX20DH0830T7P2132T710
Dual Port – Non-SED	XX20DH083T84P014T0910	XX20DH087T68P018T1910	XX20DH0815T3P0116T310	XX20DH0830T7P0132T710
Dual Port – FIPS	XX20DH083T84PF14T0910	XX20DH087T68PF18T1910	XX20DH0815T3PF116T310	XX20DH0830T7PF132T710



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Solutions – X201P (U.2)

Form Factor U.2					
Capacity ¹	1920GB	3840GB	7680GB	15360GB	30720GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Performance ²³⁴					
Sequential Read (MB/s)	14800	14800	14800	14800	14800
Sequential Write (MB/s)	2300	4600	9200	11800	10000
4K Random Read (IOPS)	1400K	2700K	3300K	3250K	2800K
4K Random Write (IOPS)	75K	220K	480K	600K	480K
Read Latency (Typ., µs)	65	65	65	65	65
Write Latency (Typ., µs)	450	150	80	65	75
Power Consumption ⁵					
Active (W)	25	25	25	25	25
Idle (W)	5	5	5	5	5
Endurance/Reliability					
DWPD ⁶	1	1	1	1	1
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5	2.5	2.5	2.5
Limited Warranty (years)	5	5	5	5	5
Temperature					
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Physical Dimension					
Length (mm)	100.1	100.1	100.1	100.1	100.1
Width (mm)	69.85	69.85	69.85	69.85	69.85
Height (mm)	14.7	14.7	14.7	14.7	14.7
Weight (g)	190 - 200	190 - 200	190 - 200	190 - 200	190 - 200
Part Number					
Single Port – ISE	XP208H081T92P322T04 10	XP208H083T84P324T09 10	XP208H087T68P328T19 10	XP208H0815T3P3216T3 10	XP208H0830T7P3232T7 10
Single Port – SED	XP208H081T92P222T04 10	XP208H083T84P224T09 10	XP208H087T68P228T19 10	XP208H0815T3P2216T3 10	XP208H0830T7P2232T7 10
Single Port – Non-SED	XP208H081T92P022T04 10	XP208H083T84P024T09 10	XP208H087T68P028T19 10	XP208H0815T3P0216T3 10	XP208H0830T7P0232T7 10
Single Port – FIPS	XP208H081T92PF22T04 10	XP208H083T84PF24T09 10	XP208H087T68PF28T19 10	XP208H0815T3PF216T3 10	XP208H0830T7PF232T7 10
Dual Port – ISE	XX208H081T92P322T04 10	XX208H083T84P324T09 10	XX208H087T68P328T19 10	XX208H0815T3P3216T3 10	XX208H0830T7P3232T7 10
Dual Port – SED	XX208H081T92P222T04 10	XX208H083T84P224T09 10	XX208H087T68P228T19 10	XX208H0815T3P2216T3 10	XX208H0830T7P2232T7 10
Dual Port – Non-SED	XX208H081T92P022T04 10	XX208H083T84P024T09 10	XX208H087T68P028T19 10	XX208H0815T3P0216T3 10	XX208H0830T7P0232T7 10
Dual Port – FIPS	XX208H081T92PF22T04 10	XX208H083T84PF24T09 10	XX208H087T68PF28T19 10	XX208H0815T3PF216T3 10	XX208H0830T7PF232T7 10



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Sequential Write

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Random Read

Up to 3,300K IOPS

Random Write

Up to 1,050K IOPS

Interface

PCIe Gen5 x4

Capacity

Up to 25600GB

Form Factor

E3.S, U.2

DWPD

3

**Product Features**

- Power Loss Protection (PLP)
- TCG Opal 2.0 Support
- AES-XTS 256-bit Encryption
- End-to-End Data Path Protection
- Multiple Namespaces

Solutions – X201E (E3.S)

Form Factor E3.S				
Capacity ¹	3200GB	6400GB	12800GB	25600GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC
Performance ²³⁴				
Sequential Read (MB/s)	14800	14800	14800	14800
Sequential Write (MB/s)	4600	9200	11000	10000
4K Random Read (IOPS)	2700K	3300K	3000K	2800K
4K Random Write (IOPS)	480K	980K	1050K	950K
Read Latency (Typ., µs)	65	65	65	65
Write Latency (Typ., µs)	80	80	40	45
Power Consumption ⁵				
Active (W)	25	25	25	25
Idle (W)	5	5	5	5
Endurance/Reliability				
DWPD ⁶	3	3	3	3
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5	2.5	2.5
Limited Warranty (years)	5	5	5	5
Temperature				
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Physical Dimension				
Length (mm)	112.75	112.75	112.75	112.75
Width (mm)	76	76	76	76
Height (mm)	7.45	7.45	7.45	7.45
Weight (g)	110 - 120	110 - 120	110 - 120	110 - 120
Part Number				
Single Port – ISE	XP20DH083T20E314T0910	XP20DH086T40E318T1910	XP20DH0812T8E3116T310	XP20DH0825T6E3132T710
Single Port – SED	XP20DH083T20E214T0910	XP20DH086T40E218T1910	XP20DH0812T8E2116T310	XP20DH0825T6E2132T710
Single Port – Non-SED	XP20DH083T20E014T0910	XP20DH086T40E018T1910	XP20DH0812T8E0116T310	XP20DH0825T6E0132T710
Single Port – FIPS	XP20DH083T20EF14T0910	XP20DH086T40EF18T1910	XP20DH0812T8EF116T310	XP20DH0825T6EF132T710
Dual Port – ISE	XX20DH083T20E314T0910	XX20DH086T40E318T1910	XX20DH0812T8E3116T310	XX20DH0825T6E3132T710
Dual Port – SED	XX20DH083T20E214T0910	XX20DH086T40E218T1910	XX20DH0812T8E2116T310	XX20DH0825T6E2132T711
Dual Port – Non-SED	XX20DH083T20E014T0910	XX20DH086T40E018T1910	XX20DH0812T8E0116T310	XX20DH0825T6E0132T712
Dual Port – FIPS	XX20DH083T20EF14T0910	XX20DH086T40EF18T1910	XX20DH0812T8EF116T310	XX20DH0825T6EF132T713



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Solutions – X201E (U.2)

Form Factor U.2					
Capacity ¹	1600GB	3200GB	6400GB	12800GB	25600GB
Interface	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4	PCIe Gen5 x4
NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Performance ²³⁴					
Sequential Read (MB/s)	14800	14800	14800	14800	14800
Sequential Write (MB/s)	2300	4600	9200	11800	10000
4K Random Read (IOPS)	1400K	2700K	3300K	3250K	2800K
4K Random Write (IOPS)	220K	480K	980K	1050K	950K
Read Latency (Typ., µs)	65	65	65	65	65
Write Latency (Typ., µs)	180	80	80	40	45
Power Consumption ⁵					
Active (W)	25	25	25	25	25
Idle (W)	5	5	5	5	5
Endurance/Reliability					
DWPD ⁶	3	3	3	3	3
UBER	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read	< 1 sector per 10 ¹⁸ bits read
MTBF (million hours)	2.5	2.5	2.5	2.5	2.5
Limited Warranty (years)	5	5	5	5	5
Temperature					
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Physical Dimension					
Length (mm)	100.1	100.1	100.1	100.1	100.1
Width (mm)	69.85	69.85	69.85	69.85	69.85
Height (mm)	14.7	14.7	14.7	14.7	14.7
Weight (g)	190 - 200	190 - 200	190 - 200	190 - 200	190 - 200
Part Number					
Single Port – ISE	XP208H081T60E322T04 10	XP208H083T20E324T09 10	XP208H086T40E328T19 10	XP208H0812T8E3216T3 10	XP208H0825T6E3232T7 10
Single Port – SED	XP208H081T60E222T04 10	XP208H083T20E224T09 10	XP208H086T40E228T19 10	XP208H0812T8E2216T3 10	XP208H0825T6E2232T7 11
Single Port – Non-SED	XP208H081T60E022T04 10	XP208H083T20E024T09 10	XP208H086T40E028T19 10	XP208H0812T8E0216T3 10	XP208H0825T6E0232T7 12
Single Port – FIPS	XP208H081T60EF22T04 10	XP208H083T20EF24T09 10	XP208H086T40EF28T19 10	XP208H0812T8EF216T3 10	XP208H0825T6EF232T7 13
Dual Port – ISE	XX208H081T60E322T04 10	XX208H083T20E324T09 10	XX208H086T40E328T19 10	XX208H0812T8E3216T3 10	XX208H0825T6E3232T7 10
Dual Port – SED	XX208H081T60E222T04 10	XX208H083T20E224T09 10	XX208H086T40E228T19 10	XX208H0812T8E2216T3 10	XX208H0825T6E2232T7 11
Dual Port – Non-SED	XX208H081T60E022T04 10	XX208H083T20E024T09 10	XX208H086T40E028T19 10	XX208H0812T8E0216T3 10	XX208H0825T6E0232T7 12
Dual Port – FIPS	XX208H081T60EF22T04 10	XX208H083T20EF24T09 10	XX208H086T40EF28T19 10	XX208H0812T8EF216T3 10	XX208H0825T6EF232T7 13



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