

Memory TF Cards

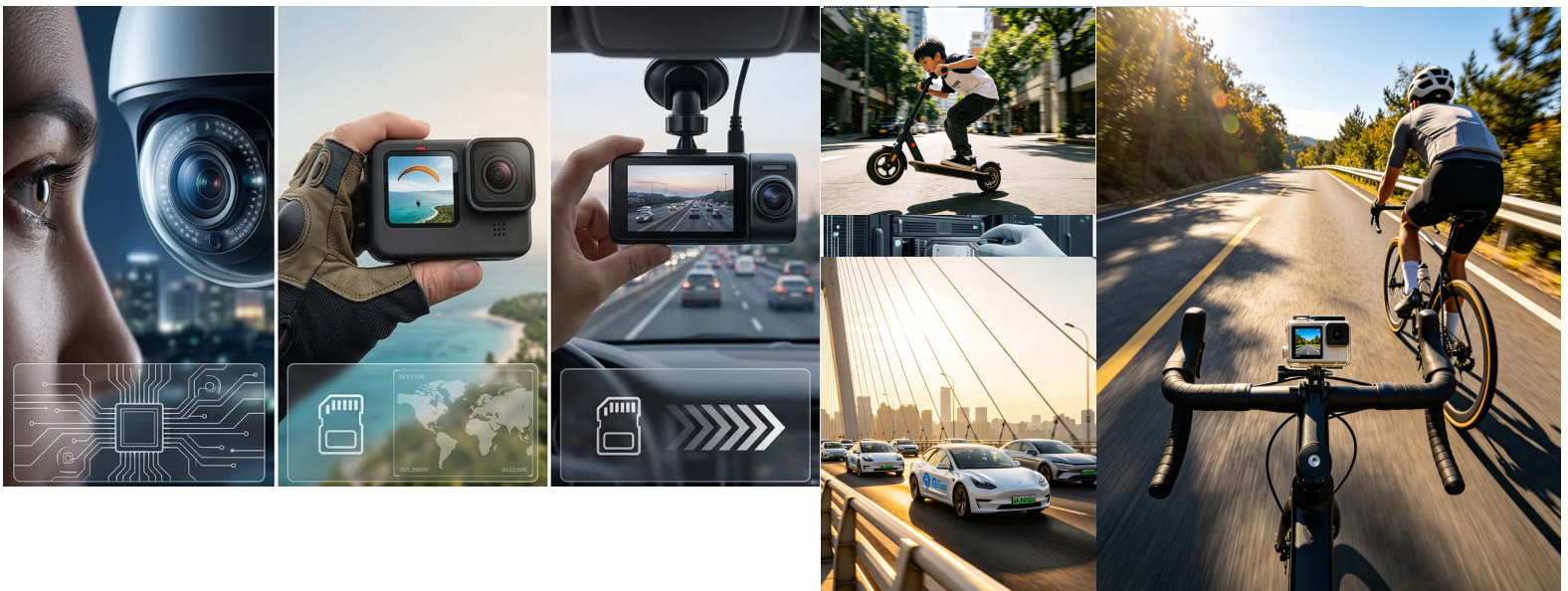


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SD / TF Cards, Memory Cards & Drives

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Serving Applications



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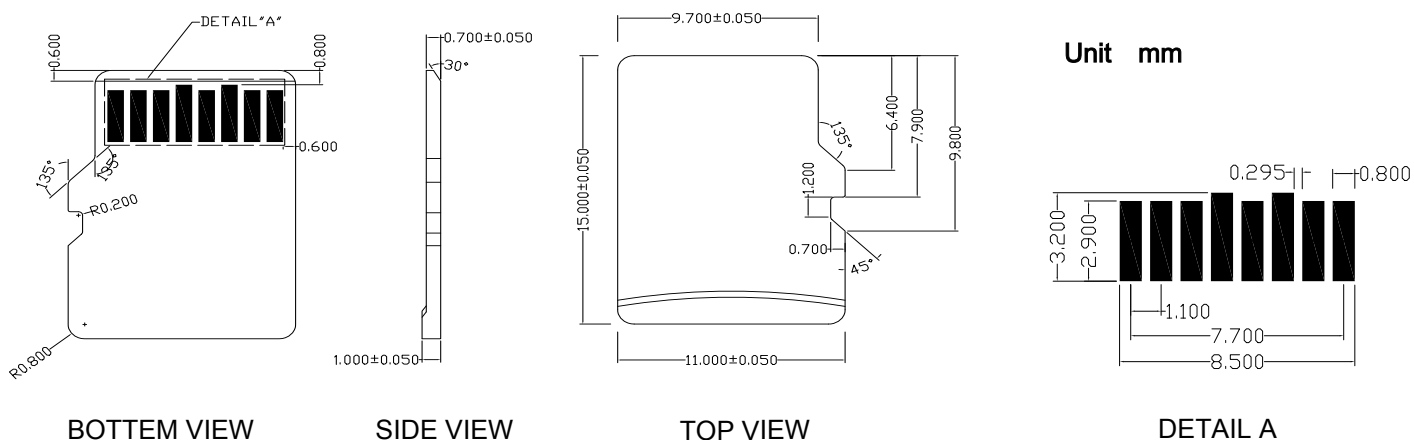
Qualified through EVT, DVT, and PVT validation process

CP Vault TF Card – Capacity Model Overview for All Four Series Cards

Shoot 4K UHD video and burst-mode photos without slowdown. CP-Vault TF/SD Card offers read speeds up to 100MB/s and write speeds up to 90MB/s¹, backed by U3 and V30 ratings for consistent, reliable performance in the field.

Product Series	Capacity	CP Vault Model	NAND Flash	Speed Grade	Transmission Speed	Durability	Operating Temperature	Storage Temperature	Thermal Shock
CP Vault Lite	2GB	CPV-LT-02-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	4GB	CPV-LT-04-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	8GB	CPV-LT-08-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	16GB	CPV-LT-16-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	32GB	CPV-LT-32-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	64GB	CPV-LT-64-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	128GB	CPV-LT-128-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	256GB	CPV-LT-256-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
	512GB	CPV-LT-512-U1A1	TLC	UHS-I, Class 10, U1, A1	Read: 60–80 MB/s Write: 10–20 MB/s	1000 P/E	0°C ~ 70°C	-25°C~85°C	/
CP Vault Pro A1	8GB	CPV-PR-08-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–70 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	16GB	CPV-PR-16-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–70 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	32GB	CPV-PR-32-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	64GB	CPV-PR-64-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	128GB	CPV-PR-128-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	256GB	CPV-PR-256-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	512GB	CPV-PR-512-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	1TB	CPV-PR-1TB-U1U3A1	Industrial TLC	UHS-I, U3, A1	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
CP Vault Pro A2	8GB	CPV-PR-08-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–70 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	16GB	CPV-PR-16-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–70 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	32GB	CPV-PR-32-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	64GB	CPV-PR-64-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	128GB	CPV-PR-128-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	256GB	CPV-PR-256-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	512GB	CPV-PR-512-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
	1TB	CPV-PR-1TB-U1U3A2	Industrial TLC	UHS-I, U3, A2	Read: 80–100 MB/s Write: 30–80 MB/s	3000 P/E	-25°C~85°C	-40°C~85°C	-25°C~85°C
CP Vault Ultra	8GB	CPV-UL-08-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 60–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	16GB	CPV-UL-16-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 60–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	32GB	CPV-UL-32-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 70–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	64GB	CPV-UL-64-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 70–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	128GB	CPV-UL-128-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 70–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	256GB	CPV-UL-256-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 70–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	512GB	CPV-UL-512-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 70–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C
	1TB	CPV-UL-1TB-U1U3A2	Industrial TLC	UHS-I, U3, A2, V30	Read: 90–100 MB/s Write: 70–90 MB/s	5000 P/E	-40°C~85°C	-40°C~85°C	-40°C~85°C

Capacities	2/4/8/16/32/64/128/256/512/1TB
Chip Standard/Speed	Class 10, UHS-1, U1,U3,A1/A2
Performance ¹	Up to 100/90MB/s read/write
Dimensions	15mm x 11mm x 0.95mm
Format	FAT32, exFAT
Operating temperature	-25°C~85°C
Storage temperature	-40°C~85°C
Voltage	2.7 - 3.6V
Warranty/support	1 Years



① Speed Disclaimer

Based on internal testing. Performance may vary depending on host device, interface conditions, and usage environment. Read speeds may reach up to 100MB/s under UHS-I interface conditions. Write speeds may vary by capacity and workload.

② Environmental Ratings

IPX7 tested for water resistance, providing protection against immersion in up to 1 meter of water for up to 30 minutes under controlled conditions. Operating temperature range: -25°C to 85°C. Resistant to X-ray exposure under typical airport security screening conditions.

③ Capacity Disclaimer

Actual usable storage capacity may be less than the stated capacity due to formatting and system functions, including firmware and file system overhead.

④ CP-Vault's Lite, Pro, Ultra Series

Products are validated through EVT, DVT, and PVT development stages under controlled engineering and production testing processes.

⑤ NAND

Performance varies depending on NAND type, controller architecture, and system configuration.

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