



HAKKIMIZDA

18 yılı aşkın süredir bilişim sektörünün birçok ihtiyacını karşılayan ve tamamen yerli sermaye ile kurulmuş olan ve bu doğrultuda üretmiş olduğu katma değerli çözümlerle sektöründe lider konuma gelmiştir.

ISP, Telekom, Kamu, Banka ve Özel sektörün ihtiyaçlarını doğru analiz etme becerisine sahip kadrosuyla, 700'e yakın bayi ağı ve 300'ün üzerinde özel sektörde yer alan müşterilerine bütçesel anlamda kayda değer kazanç sağlamayı başarmıştır. Şirketimiz, dünya genelindeki ofisleriyle, yakalamış olduğu başarıyı sürdürmektedir.

LONGLINE ÜRÜN SERİSİ

Desktop, Notebook, Server, Macintosh ve Industrial ürün ailelerine tam uyumlu %100 performans sağlayarak kaliteli chipset kullanarak üretim yapılmaktadır. Bellek Modülleri, Bellek Kartları, SSD Diskleri, USB Flash Sürücüler ve Endüstriyel Memory vb. ürünlere ait dünya genelinde kabul görmüş sertifikalara sahiptir.

Kısa zamanda bellek sektöründe önemli yer edinen Longline Memory, özellikle Avrupa ve Amerika pazarında oldukça ilgi çekmekte olup, birçok büyük kurumun tercih ettiği ürün arasına girmiştir. Yüksek performans ve güvenilirlik ilkelerini benimseyerek ürettiği ürünler müşterilerden tam not almıştır. Ücretsiz teknik destek ve sürekli teknolojiyi yakından takip eden teknik ekibiyle, kendi standartlarını belirlemiştir.

Ayrıca son kullanıcıya hitap eden ve olmazsa olmaz olan yüksek kapasiteli uygulamaların çalışmasında önemli rol oynayan, hız/performans kriterlerini de düşünerek yüksek kapasiteye sahip Memory ve SSD'leri üretmeyi başarmıştır. (bilgisayar oyunları, grafik çizim uygulamaları vb.)

Üretim Merkezi Uzakdoğu'da olup, tüm marka ve modelleri destekleyen Longline Memory, dünya çapında satış ağı ile bayilerine uygun maliyet ve hızlı performans sağlamaktadır.

GARANTİ HİZMETİ

Longline, "Dürüstlük, İnovasyon, Profesyonellik, Verimlilik, Disiplin ve Sadelik" felsefesine sadık kalarak sektör ve müşteriler tarafından adından övgüyle söz ettirmektedir. Tüm memory ve hafıza ürünleri tam garanti kapsamındadır. Diğer markalara göre daha hızlı onarım ve değişim hizmetleri sunduğunu garanti etmektedir.

Ayrıca tüm memory ailesine ömür boyu garanti vermektedir.

ARGE ÇALIŞMASI

Profesyonel teknik ekibi, laboratuvarları ve üretim ekipmanlarıyla, yenilik anlayışı ve kalite kontrol sistemiyle çalışmalarını yürütmektedir.

Memory teknolojisi, ISO 9001 ve ISO 14001 sertifika süreçlerini tamamlamış, ürün tasarımı, malzeme edinimi, üretim süreci ve kalite testiyle üstün başarı göstermiştir.



LOGLINE
MEMORY
MODULES
SERIES



LOGLINE
SERVER
MEMORY



LOGLINE
SSD
SERIES



LOGLINE
CARD
SERIES



LOGLINE
UFD
SERIES



LOGLINE
INDUSTRIAL
APPLICATIONS





LONGLINE MEMORY MODULES SERIES



Ⓢ DDR4 4000

Ⓣ DDR4 3600

| | | |
|---------------|--------------------------------|-----------------------|
| Suitable For | Desktop PC | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | |
| Capacity | 8GBx2 | 8GBx2 |
| Data Transfer | 32,000MB/s(PC4-32000) | 28,800MB/s(PC4-28800) |
| Rate | 18-20-20-44 | 18-20-20-44 |
| Voltage | 1.35V | 1.35V |





| | ⌵ DDR4 4000 | ⌵ DDR4 3600 | ⌵ DDR4 3200 | ⌵ DDR4 3000 |
|----------------------|--------------------------------|----------------------------|----------------------------|----------------------------|
| Suitable For | Desktop PC | | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | | |
| Capacity | 8GBx2 | 8GBx2 | 8GBx2 / 16GBx2 | 8GBx2 / 16GBx2 |
| Data Transfer | 32,000MB/s | 28,800MB/s | 25,600MB/s | 24,000MB/s |
| Rate | (PC4-32000) 18-20-20-44 | (PC4-28800) 18-20-20-44 | (PC4 25600) 16-18-18-38 | (PC4 24000) 16-18-18-38 |
| Voltage | 1.35V | 1.35V | 1.35V | 1.35V |



| | ⌵ DDR4 3200 | ⌵ DDR4 3000 | ⌵ DDR4 2800 | ⌵ DDR4 2666 |
|----------------------|--------------------------------|------------------------|------------------------|------------------------|
| Suitable For | Desktop PC | | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | | |
| Capacity | 8GBx2 / 16GBx2 | 8GBx2 / 16GBx2 | 18GBx2 / 16GBx2 | 8GBx2 / 16GBx2 |
| Data Transfer | 25,600MB/s (PC4 25600) | 24,000MB/s (PC4 24000) | 22,400MB/s (PC4 22400) | 21,300MB/s (PC4 21300) |
| Rate | 16-18-18-38 | 16-18-18-38 | 16-18-18-38 | 15-17-17-35 |
| Voltage | 1.35V | 1.35V | 1.2V | 1.2V |



DDR4 3000

DDR4 2666

DDR4 2400 DDR4 2400

| | | | |
|---------------|--------------------------------|---------------------------|---------------------------|
| Suitable For | Desktop PC | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | |
| Capacity | 4GBx2 / 8GBx2 / 16GBx2 | 4GB / 4GBx2 / 8GB / 8GBx2 | 4GB / 4GBx2 / 8GB / 8GBx2 |
| | | 16GB / 16GBx2 | 16GB / 16GBx2 |
| Data Transfer | 24,000MB/s (PC4 24000) | 21,300MB/s (PC4 21300) | 19,200MB/s (PC4 19200) |
| Rate | 16-18-18-38 | 15-17-17-35 | 15-17-17-35 / 16-16-16-39 |
| Voltage | 1.35V | 1.2V | 1.2V |

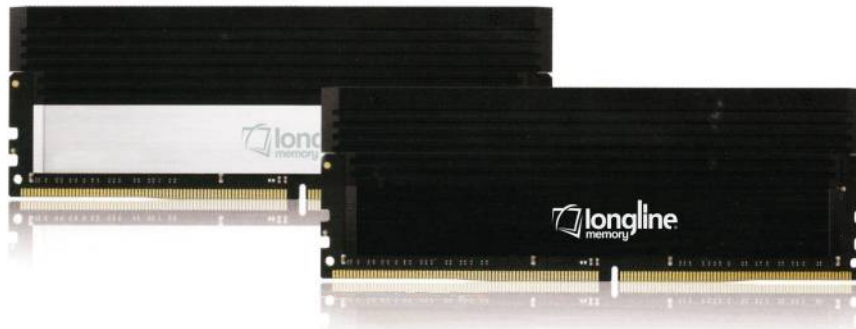


DDR4 3000

DDR4 2400

| | | |
|---------------|--------------------------------|---|
| Suitable For | Desktop PC | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | |
| Capacity | 4GBx2 / 8GBx2 / 16GBx2 | 4GB / 8GB / 16GB / 4GBx2 / 8GBx2 / 16GBx2 |
| Data Transfer | 24,000MB/s (PC4 24000) | 19,200MB/s (PC4 19200) |
| Rate | 16-18-18-38 | 15-17-17-35 / 16-16-16-39 |
| Voltage | 1.35V | 1.2V |





DDR4 4133

| | |
|---------------|--------------------------------|
| Suitable For | Desktop PC |
| TYPE | 288Pin Unbuffered DIMM Non ECC |
| Capacity | 8GBx2 |
| Data Transfer | 33,000MB/s (PC4 33000) |
| Rate | 18-18-18-38 |
| Voltage | 1.4V |

DDR4 4000

| | |
|---------------|------------------------|
| Suitable For | |
| TYPE | |
| Capacity | 8GBx2 / 8GBx4 |
| Data Transfer | 32,000MB/s (PC4 32000) |
| Rate | 18-20-20-44 |
| Voltage | 1.35V |

DDR4 3866

| | |
|---------------|---|
| Suitable For | |
| TYPE | |
| Capacity | 4GBx2 / 8GBx2 / 8GBx4 |
| Data Transfer | 30,900MB/s (PC4 30900) |
| Rate | 18-20-20-39 for 4GB/18-20-20-44 for 8GB |
| Voltage | 1.35V |

DDR4 3733

| | |
|---------------|---|
| Suitable For | Desktop PC |
| TYPE | 288Pin Unbuffered DIMM Non ECC |
| Capacity | 4GBx2 / 8GBx2 / 8GBx4 / 16GBx4 |
| Data Transfer | 29,860MB/s (PC4 29800) |
| Rate | 17-19-19-39 for others 18-20-20-39 for 8GBx2 |
| Voltage | 1.35V |

DDR4 3600

| | |
|---------------|---|
| Suitable For | |
| TYPE | |
| Capacity | 4GBx2/8GBx2/8GBx4/16GBx4 |
| Data Transfer | 28,800MB/s (PC4 28800) |
| Rate | 17-19-19-39 for 4GB/18-20-20-39 for 8GB 16-18-18-38 for 8GBx4 & 16GBx4 |
| Voltage | 1.35V |

DDR4 3466

| | |
|---------------|------------------------|
| Suitable For | |
| TYPE | |
| Capacity | 4GBx2 / 8GBx2 |
| Data Transfer | 27,728MB/s (PC4 27700) |
| Rate | 17-19-19-39 |
| Voltage | 1.35V |



DDR4 3466

| | |
|---------------|--------------------------------|
| Suitable For | Desktop PC |
| TYPE | 288Pin Unbuffered DIMM Non ECC |
| Capacity | 8GBx2 |
| Data Transfer | 27,700MB/s (PC4 27700) |
| Rate | 16-18-18-38 |
| Voltage | 1.35V |

DDR4 3333

| | |
|---------------|------------------------|
| Suitable For | |
| TYPE | |
| Capacity | 4GBx2 / 8GBx2 |
| Data Transfer | 26,600MB/s (PC4 26600) |
| Rate | 17-18-18-39 |
| Voltage | 1.35V |

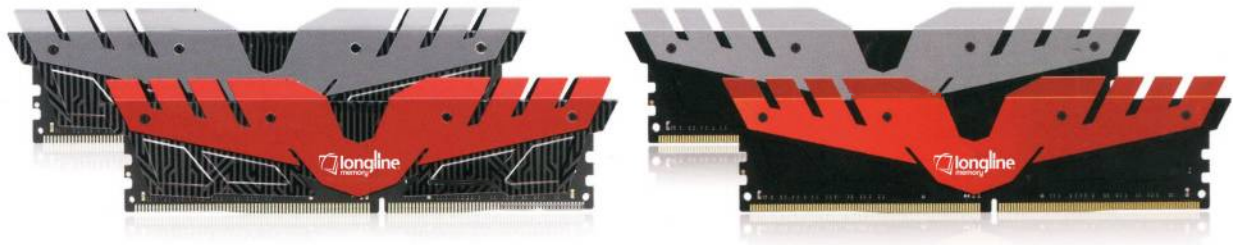
DDR4 3200

| | |
|---------------|---------------------------|
| Suitable For | |
| TYPE | |
| Capacity | 4GBx2 / 8GBx2 |
| Data Transfer | 25,600MB/s (PC4 25600) |
| Rate | 16-16-16-36 / 14-14-14-31 |
| Voltage | 1.35V |

DDR4 3000

| | |
|---------------|---------------------------|
| Suitable For | |
| TYPE | |
| Capacity | 4GBx2 / 8GBx2 |
| Data Transfer | 24,000MB/s (PC4 24000) |
| Rate | 16-18-18-38 / 15-15-15-35 |
| Voltage | 14-14-14-31 1.35V |





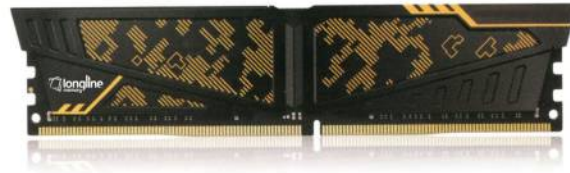
| | ⬇️ DDR4 3000 | ⬇️ DDR4 3200 | ⬇️ DDR4 3000/DDR4 2400 |
|---------------|--------------------------------|--|-------------------------------|
| Suitable For | Desktop PC | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | |
| Capacity | 8GBx2 | 44GBx2/4GBx4/8GBx2/8GBx4/16GBx2/16GBx4 | |
| Data Transfer | 24,000MB/s (PC4 24000) | 25,600MB/s (PC4 25600) | 24,000MB/s (PC4 24000) |
| Rate | 16-18-18-38 | 16-18-18-38 | 15-15-15-35 / 16-18-18-38 |
| Voltage | 1.35V | 1.35V | 1.35V |

| | ⬇️ DDR4 2800 | ⬇️ DDR4 2666 | ⬇️ DDR4 2400 |
|---------------|---|--|--|
| Suitable For | Desktop PC | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | |
| Capacity | 4GBx2 / 4GBx4 / 8GBx2 / 8GBx4 | 4GB / 4GBx2 / 4GBx4 / 8GB / 8GBx2 / 8GBx4 | |
| Data Transfer | 16GBx2 / 16GBx4 | 16GB / 16GBx2 / 16GBx4 | |
| Rate | 22,400MB/s (PC4 22400) 16-16-16-36 / 16-18-18-38 | 21,328MB/s (PC4 21300) 14-16-16-31 for 4GB / 8GB 15-15-15-35 for 8GBx2 15-17-17-35 for others | 19,200MB/s (PC4 19200) 14-16-16-31 / 15-17-17-35 16-16-16-39 |
| Voltage | 1.2V | 1.2V | 1.2V |

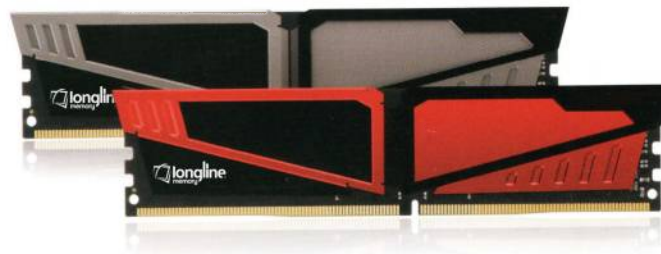


| | ⬇️ DDR3 2400 | ⬇️ DDR3 2133 | ⬇️ DDR3 1866 | ⬇️ DDR3 1600 |
|---------------|--------------------------------|------------------------|---------------------------|------------------------|
| Suitable For | Desktop PC | | | |
| TYPE | 240Pin Unbuffered DIMM Non ECC | | | |
| Capacity | 4GBx2 / 8GBx2 | 4GBx2 / 8GBx2 | 4GBx2 / 8GBx2 | 4GB/4GBx2/8GB/8GBx2 |
| Data Transfer | 19,200MB/s (PC4 19200) | 17,064MB/s (PC3 17000) | 14,928MB/s (PC3 14900) | 12,800MB/s (PC3 12800) |
| Rate | 11-13-13-35 | 10-12-12-31 | 10-11-10-30 / 11-11-11-28 | 9-9-9-24 / 10-10-10-27 |
| Voltage | 1.65V | 1.65V | 1.5V | 1.5V |





| | ⬇️ DDR4 3600 | ⬇️ DDR4 3200 | ⬇️ DDR4 3000 | ⬇️ DDR4 2400 |
|----------------------|---------------------------------|----------------------|----------------------|-------------------------|
| Suitable For | Desktop PC | | | |
| TYPE | 288 Pin Unbuffered DIMM Non ECC | | | |
| Capacity | 8GBx2 / 16GBx2 | | | |
| Data Transfer | 28,800MB/s(PC4-28800) | 25,600MB/s(PC425600) | 24,000MB/s(PC424000) | 19,200MB/s(PC419200) |
| Rate | 19-19-19-39 | 16-18-18-38 | 16-18-18-38 | 14-16-16-31/15-17-17-35 |
| Voltage | 1.35V | 1.35V | 1.35V | 1.2V |



| | ⬇️ DDR4 3466 | ⬇️ DDR4 3333 | ⬇️ DDR4 3200 |
|----------------------|--|------------------------|------------------------|
| Suitable For | Desktop PC | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | |
| Capacity | 4GB / 4GBx2 / 4GBx4 / 8GB / 8GBx2 / 8GBx4 / 16GB / 16GBx2 / 16GBx4 | | |
| Data Transfer | 25,600MB/s (PC4 25600) | 24,000MB/s (PC4 24000) | 22,400MB/s (PC4 22400) |
| Rate | 16-18-18-38 | 16-18-18-38 | 16-18-18-38 |
| Voltage | 1.35V | 1.35V | 1.2V |

| | ⬇️ DDR4 2666 | ⬇️ DDR4 2400 |
|----------------------|--|-------------------------------------|
| Suitable For | Desktop PC | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | |
| Capacity | 4GB/4GBx2/4GBx4/8GB/8GBx2/8GBx4/16GB/16GBx2/21,328MB/s (PC4 21300) | |
| Data Transfer | 15-17-17-35 | 19,200MB/s (PC4 19200) |
| Rate | 1.2V | 14-16-16-31/15-17-17-35/16-16-16-39 |
| Voltage | | 1.2V |





| | ⬇️ DDR3 2400 | ⬇️ DDR3 2133 | ⬇️ DDR3 1866 | ⬇️ DDR3 1600 |
|----------------------|--------------------------------|------------------------|---------------------------|---------------------------|
| Suitable For | Desktop PC | | | |
| TYPE | 240Pin Unbuffered DIMM Non ECC | | | |
| Capacity | 4GBx2 / 8GBx2 | 4GBx2 / 8GBx2 | 4GBx2 / 8GBx2 | 4GB / 4GBx2 / 8GB / 8GBx2 |
| Data Transfer | 19,200MB/s (PC3 19200) | 17,064MB/s (PC3 17000) | 14,928MB/s (PC3 14900) | 12,800MB/s (PC3 12800) |
| Rate | 11-13-13-35 | 10-12-12-31 | 10-11-10-30 / 11-11-11-28 | 9-9-9-24 / 10-10-10-27 |
| Voltage | 1.65V | 1.65V | 1.5V | 1.5V |



| | ⬇️ DDR4 2666 | ⬇️ DDR4 2400 | ⬇️ DDR4 2133 |
|----------------------|--|--|--|
| Suitable For | Desktop PC | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | |
| Capacity | 4GB / 4GBx2 / 8GB / 8GBx2 16GB / 16GBx2 | 4GB / 4GBx2 / 4GBx4 / 8GB 8GBx2 / 8GBx4 / 16GB / 16GBx2 | 4GB / 4GBx2 / 4GBx4 / 8GB 8GBx2 / 8GBx4 / 16GB / 16GBx2 |
| Data Transfer | 21,300MB/s (PC4 21300) | 19,200MB/s (PC4 19200) | 17,064MB/s (PC4 17000) |
| Rate | 19-19-19-43 | 16-16-16-39 | 15-15-15-36 |
| Voltage | 1.2V | 1.2V | 1.2V |



| | DDR3 1866 | DDR3 1600 | DDR3 1333 |
|---------------|--------------------------------|--|--|
| Suitable For | Desktop PC | | |
| TYPE | 240Pin Unbuffered DIMM Non ECC | | |
| Capacity | 4GB / 4GBx2 8GB / 8GBx2 | 2GB / 2GBx2 / 4GB / 4GBx2 8GB / 8GBx2 | 2GB / 2GBx2 / 4GB / 4GBx2 8GB / 8GBx2 |
| Data Transfer | 14,928MB/s (PC3 14900) | 12,800MB/s (PC3 12800) | 10,664MB/s (PC3 10600) |
| Rate | 13-13-13-32 | 11-11-11-28 | 9-9-9-24 |
| Voltage | 1.5V | 1.5V | 1.5V |

| | DDR2 800 | DDR2 667 | DDR 400 |
|---------------|--------------------------------|----------------------|--------------------------------|
| Suitable For | Desktop PC | | |
| TYPE | 240Pin Unbuffered DIMM Non ECC | | 184Pin Unbuffered DIMM Non ECC |
| Capacity | 1GB / 2GB | 1GB / 2GB | 1GB |
| Data Transfer | 6,400MB/s (PC2 6400) | 5,336MB/s (PC2 5300) | 3,200MB/s (PC 3200) |
| Rate | 6-6-6-18 | 5-5-5-15 | 3-4-4-8 |
| Voltage | 1.8V | 1.8V | 2.6V |

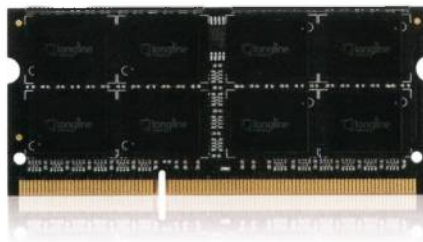


| | DDR4 2666 | DDR4 2400 |
|---------------|---|-------------------------|
| Suitable For | Laptop | |
| TYPE | 260Pin SO-DIMM Non ECC | |
| Capacity | 4GB / 4GBx2 / 8GB / 8GBx2 / 16GB / 16GBx2 | |
| Data Transfer | 21,300 MB/s (PC4 21300) | 19,200 MB/s (PC4 19200) |
| Rate | 18-18-18-38 | 15-17-17-35 |
| Voltage | 1.2V | 1.2VTBC |



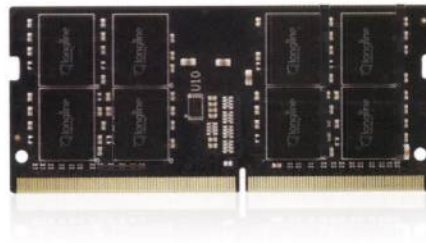
| | DDR4 2666 | DDR4 2400 | DDR4 2133 | DDR3 1866 |
|---------------|--------------------------------|---|-------------------------|--------------------------------|
| Suitable For | Desktop PC | | | |
| TYPE | 288Pin Unbuffered DIMM Non ECC | | | 240Pin Unbuffered DIMM Non ECC |
| Capacity | 4GB / 4GBx2 / 8GB | 4GB / 4GBx2 / 4GBx4 / 8GB / 8GBx2 / 8GBx4 | | 4GB / 4GBx2 / 8GB / 8GBx2 |
| Data Transfer | 8GBx2 / 16GB / 16GBx2 | 16GB / 16GBx2 | | |
| Rate | 21,300MB/s (PC4 21300) | 19,200MB/s (PC4 19200) | 11,7064MB/s (PC4 17000) | 14,928MB/s (PC3 14900) |
| Voltage | 1.2V | 1.2V | 1.2V | 1.5V |

| | DDR3 1600 | DDR3 1333 | DDR2 800 | DDR2 667 | DDR 400 |
|---------------|---|--------------|------------|------------|--------------------------------|
| Suitable For | Desktop PC | | | | |
| TYPE | 240Pin Unbuffered DIMM Non ECC | | | | 184Pin Unbuffered DIMM Non ECC |
| Capacity | 2GB / 2GBx2 / 4GB / 4GBx2 / 8GB / 8GBx2 | | 1GB / 2GB | 1GB / 2GB | 1GB |
| Data Transfer | 12,800MB/s | 110,664MB/s | 6,400MB/s | 5,336MB/s | 3,200MB/s |
| Rate | (PC3 12800) | (PC3 10600) | (PC2 6400) | (PC2 5300) | (PC 3200) |
| | 11-11-11-28 | 9-9-9-24 | 6-6-6-18 | 5-5-5-15 | 3-4-4-8 |
| Voltage | | 1.35V / 1.5V | 1.8V | 1.8V | 2.6V |



| | DDR3 1600 | DDR3 1333 |
|---------------|------------------------|------------------------|
| Suitable For | Laptop | |
| TYPE | 204Pin SO-DIMM Non ECC | 204Pin SO-DIMM Non ECC |
| Capacity | 4GB / 8GB | 4GB / 8GB |
| Data Transfer | 12,800MB/s (PC3 12800) | 10,664MB/s (PC3 10600) |
| Rate | 11-11-11-28 | 9-9-9-24 |
| Voltage | 1.35V / 1.5V | 1.35V / 1.5V |





⬇️ **DDR4 2400**

| | |
|---------------|------------------------------------|
| Suitable For | Laptop |
| TYPE | 260Pin SO-DIMM Non ECC |
| Capacity | 4GB/4GBx2/8GB/8GBx2 16GB/16GBx2 |
| Data Transfer | 19,200MB/s (PC319200) |
| Rate | 16-16-16-39 |
| Voltage | 1.2V |

⬇️ **DDR4 2133**

| | |
|---------------|------------------------------------|
| Suitable For | Laptop |
| TYPE | 260Pin SO-DIMM Non ECC |
| Capacity | 4GB/4GBx2/8GB/8GBx2 16GB/16GBx2 |
| Data Transfer | 17,000MB/s (PC317000) |
| Rate | 15-15-15-36 |
| Voltage | 1.2V |

⬇️ **DDR3 1866**

| | |
|---------------|----------------------------|
| Suitable For | Laptop |
| TYPE | 204Pin SO-DIMM Non ECC |
| Capacity | 4GB / 4GBx2 8GB / 8GBx2 |
| Data Transfer | 14,928MB/s (PC314900) |
| Rate | 13-13-13-32 |
| Voltage | 1.5V |

⬇️ **DDR3 1600**

| | |
|---------------|----------------------------------|
| Suitable For | Laptop |
| TYPE | 204Pin SO-DIMM Non ECC |
| Capacity | 2GB/2GBx2/4GB/4GBx2 8GB/8GBx2 |
| Data Transfer | 12,800MB/s (PC312800) |
| Rate | 11-11-11-28 |
| Voltage | 1.35V / 1.5V |

⬇️ **DDR3 1333**

| | |
|---------------|-------------------------------|
| Suitable For | Laptop |
| TYPE | 204Pin SO-DIMM Non ECC |
| Capacity | 2GB/2GBx2/4GB/4GBx2/8GB/8GBx2 |
| Data Transfer | 10,664MB/s (PC310600) |
| Rate | 9-9-9-24 |
| Voltage | 1.35V / 1.5V |

⬇️ **DDR2 800**

| | |
|---------------|------------------------|
| Suitable For | Laptop |
| TYPE | 204Pin SO-DIMM Non ECC |
| Capacity | 1GB / 2GB |
| Data Transfer | 6,400MB/s (PC26400) |
| Rate | 6-6-6-18 |
| Voltage | 1.8V |

⬇️ **DDR2 667**

| | |
|---------------|------------------------|
| Suitable For | Laptop |
| TYPE | 204Pin SO-DIMM Non ECC |
| Capacity | 1GB / 2GB |
| Data Transfer | 5,336MB/s (PC25300) |
| Rate | 5-5-5-15 |
| Voltage | 1.8V |



⬇️ **Mac SO-DIMM DDR3**

| | |
|-------------------------|--|
| Suitable For | Laptop |
| Product Dimensions | 67.6mm(L)x30mm(W)x3.8mm(H) |
| Capacity | 2GB, 4GB, 8GB |
| CAS Latency | 1066 : 7-7-7-21/Auto • 1333 : 9-9-9-24/Auto • 1600 : CL11-11-11-28 |
| DRAM Density | 256x8/ 512x8 |
| Data Transfer Bandwidth | 1066 : 8,500MB/s (PC38500) • 1333 : 10,600MB/s (PC310600) • 1600 : 12,800MB/s (PC312800) |
| Tested Voltage | 1.35V/1.5V |
| Warranty | Lifetime warranty |





| | DDR4 2666 | DDR4 2400 | DDR4 2133 | DDR3 1600 |
|---------------|----------------------------|--------------------------|--------------------------|-----------------------|
| Suitable For | Server / Workstation | | | |
| TYPE | 288Pin ECC Unbuffered DIMM | | | |
| Capacity | 4GB / 8GB / 16GB | 4GB / 8GB / 16GB / 32 GB | 4GB / 8GB / 16GB / 32 GB | 4GB / 8GB |
| Data Transfer | 21,300MB/s (PC4-21300) | 19,200MB/s (PC419200) | 17,064MB/s (PC417000) | 12,800MB/s (PC312800) |
| Rate | 19-19-19-43 | 17-17-17-39 | 15-15-15-36 | 11-11-11-28 |
| Voltage | 1.2V | 1.2V | 1.2V | 1.35V / 1.5V |



| | DDR4 2666 | DDR4 2400 | DDR4 2133 | DDR3 1600 |
|---------------|------------------------|-------------------------|-------------------------|------------------------|
| Suitable For | Server / Workstation | | | |
| TYPE | 288Pin Registered DIMM | 288Pin Registered DIMM | 288Pin Registered DIMM | 240Pin Registered DIMM |
| Capacity | 4GB / 8GB / 16GB | 4GB / 8GB / 16GB / 32GB | 4GB / 8GB / 16GB / 32GB | 4GB / 8GB / 16GB |
| Data Transfer | 21,300MB/s (PC4-21300) | 19,200MB/s (PC419200) | 17,064MB/s (PC417000) | 12,800MB/s (PC312800) |
| Rate | 19-19-19-43 | 17-17-17-39 | 15-15-15-36 | 11-11-11-28 |
| Voltage | 1.2V | 1.2V | 1.2V | 1.35V / 1.5V |





LONGLINE SERVER MEMORY



Ⓧ R-DIMM DDR4

Ⓧ R-DIMM DDR3

| | | | |
|---------------|-------------------------|-------------------------|-------------------------|
| Suitable For | Server Memory | | |
| TYPE | DDR4 R-DIMM | DDR3 R-DIMM | DDR3 R-DIMM |
| Capacity | 4GB / 8GB / 16GB | 4GB, 8GB, 16GB | 4GB, 8GB, 16GB |
| Data Transfer | 17,064 MB/s (PC4 17000) | 12,800 MB/s (PC3 12800) | 14,928 MB/s (PC3 14900) |
| Rate | 15-15-15-36 | CL11-11-11-28 | CL13-13-13-32 |
| Voltage | 1.2V | 1.5V | 1.5V |





⌵ VLP R-DIMM DDR3

| | |
|---------------|-------------------------|
| Suitable For | Server Memory |
| TYPE | DIMM DDR3-VLP R |
| Capacity | 8GB, 16GB |
| Data Transfer | 12,800 MB/s (PC3 12800) |
| Rate | CL11-11-11-28 |
| Voltage | 1.5V |



⌵ ECC U-DIMM DDR3

| | |
|---------------|-------------------------|
| Suitable For | Server Memory |
| TYPE | DIMM DDR3-ECC U |
| Capacity | 2GB, 4GB, 8GB |
| Data Transfer | 12,800 MB/s (PC3 12800) |
| Rate | CL11-11-11-28 |
| Voltage | 1.5V |



LONGLINE SSD SERIES



🔴 2,5 -inch SSD

| | |
|------------|--|
| Interface | DATA: SATA Rev. 3.0 (6Gb/s) - with backwards compatibility to SATA Rev. 2.0 RGB Signal: USB Micro |
| NAND Flash | B type |
| Capacity | 3D NAND |
| Feature | <p>250GB / 500GB / 1TB</p> <ul style="list-style-type: none"> •The largest RGB luminous area in the industry and the ratio is 5:3. •16.8 million RGB color display. •Support synchronization with motherboard light effects. •Read/write speed is 4 times faster than traditional hard drive. Read speed up to 560MB/s. •2.5-inch hard drive with 9.5mm in height. • Support S.M.A.R.T. technology - monitoring hard drive status efficiently. •Support TRIM - bring out its best performance on the compatible operating system. • Product warranty - three years product warranty with free technical support service. |
| Dimensions | 100 x 69.9 x 9.5 mm |
| Voltage | DC 5V |





IRON LNG3

| | |
|------------|--|
| Interface | SATA Rev. 3.0 (6GB/s) |
| NAND Flash | KLC |
| Capacity | 120GB / 240GB / 480GB / 960GB |
| Feature | <ul style="list-style-type: none"> • SATA Rev. 3.0 (6GB/s), backwards compatibility to SATA Rev. 2.0 (3GB/s). • SMART / NCQ / TRIM SUPPORT. • Best 7mm SSD for Ultrabook. |
| Dimensions | 100.0 X 69.9 X 7.0 mm |
| Voltage | DC 5V |



IRON LNG4

| | |
|------------|---|
| Interface | SATA Rev. 3.0 (6GB/s) |
| NAND Flash | TLC |
| Capacity | 120GB / 240GB / 480GB / 960GB |
| Feature | <ul style="list-style-type: none"> • SATA Rev. 3.0 (6GB/s), backwards compatibility to SATA Rev. 2.0 (3GB/s). • Support S.M.A.R.T, Trim Command, NCQ. • Configurable Error Correction. |
| Dimensions | 100.0 X 69.9 X 7.0 mm |
| Voltage | DC 5V |



IRON LNG5

| | |
|------------|---|
| Interface | SATA Rev. 3.0 (6GB/s) |
| NAND Flash | TLC |
| Capacity | 60GB / 120GB / 240GB |
| Feature | <ul style="list-style-type: none"> • SATA Rev. 3.0 (6GB/s), backwards compatibility to SATA Rev. 2.0 (3GB/s). • Support S.M.A.R.T, Trim Command, NCQ. • Configurable Error Correction. |
| Dimensions | 100.0 X 69.9 X 7.0 mm |
| Voltage | DC 5V |



IRON LNG6

| | |
|------------|--|
| Interface | SATA Rev. 3.0 (6GB/s) |
| NAND Flash | TLC |
| Capacity | 60GB / 120GB / 240GB / 480GB |
| Feature | <ul style="list-style-type: none"> • 4x faster than a HDD. • SATA Rev. 3.0 (6GB/s), backwards compatibility to SATA Rev. 2.0 (3GB/s). • SMART / NCQ / TRIM SUPPORT. • Configurable Error Correction. • Global Wear Leveling. • Bad Block Management. |
| Dimensions | 100.0 X 69.9 X 7.0 mm |
| Voltage | DC 5V |



IRON LNG7

| | |
|------------|---|
| Interface | SATA Rev. 3.0 (6GB/s) |
| NAND Flash | 3D NAND |
| Capacity | 120GB / 240GB / 480GB / 1TB |
| Feature | <ul style="list-style-type: none"> 3D NAND. SATA Rev 3.0(6GB/s), backwards compatibility to SATA Rev.2.0(3GB/s). Support S.M.A.R.T. technology. Support TRIM. Configurable Error Correction. |
| Dimensions | 100.0 X 69.9 X 7.0 mm |
| Voltage | DC 5V |



PD700

| | |
|------------|---|
| Interface | USB 3.1 Gen2 (10Gb/s) |
| NAND Flash | KLC |
| Capacity | 240GB / 480GB / 960GB |
| Feature | <ul style="list-style-type: none"> Extreme powerful performance - USB 3.1 Gen2 (10Gb/s). High-speed transmission speed - read / write up to 600 MB/s. Easy to carry lightweight size. Extreme Metal Craft - concentric circles and diamond cutting edge design. Quiet, shockproof and drop protection - Built-in |
| Dimensions | Solid State Drive. |
| Voltage | . Three years Warranty - free technical support services. |

PD500

| | |
|------------|--|
| Interface | USB 3.1 Gen1 |
| NAND Flash | TLC |
| Capacity | 120GB / 240GB / 480GB |
| Feature | <ul style="list-style-type: none"> USB 3.1 Gen1 high speed transfer. Compact, lightweight and easy to carry around with zero hassle. A unique and high quality fashion taste. Shockproof, fall resistance and zero noise for all around protection. Three years product warranty with free technical support service. |
| Dimensions | 80.0 x 49.5 x 9.4 mm |
| Voltage | DC 5V |





Ⓣ RUBBER LN

| | |
|------------|---|
| Interface | PCIe 3.0 x4 with NVMe 1.2 |
| NAND Flash | KLC |
| Capacity | 240GB / 480GB |
| Feature | <ul style="list-style-type: none"> • Cooling module with gaming fin type design can provide effective cooling for continuous and high intensity use. • High performance superconductivity - Thermally conductive adhesive offers average heat radiating, instantaneously thermal energy transfer and accelerates the radiating process. • Extreme read/write speed - Over 2600MB/s of read speed can enhance the speed and performance of the overall system. • NVMe interface - Support latest NVMe specification. • This product has a heat sink, recommended the use of desktop only. |
| Dimensions | 80.1x 23.4 x 12.9 mm |
| Voltage | DC 3.3V |



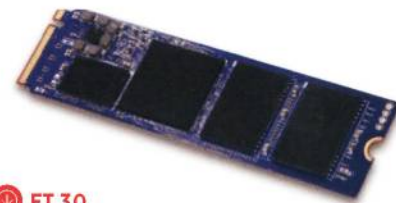
Ⓣ RUBBER S

| | |
|------------|--|
| Interface | PCIe 3.0 x2 with NVMe 1.3 |
| NAND Flash | 3D NAND |
| Capacity | 256GB / 512GB / 1TB |
| Feature | <ul style="list-style-type: none"> • Cooling module with gaming fin type design can provide effective cooling for continuous and high intensity use. • High performance superconductivity: Thermally conductive adhesive offers average heat radiating, instantaneously thermal energy transfer and accelerates the radiating process. • Read/write speed: up to 1550 MB/s of read speed can enhance the speed and performance of the overall system. • NVMe interface: Support latest NVMe specification. • This product has a heat sink, recommended the use of desktop only. |
| Dimensions | 80.1 x 23.4 x 12.9 mm |
| Voltage | DC 3.3V |



Ⓣ FAST L

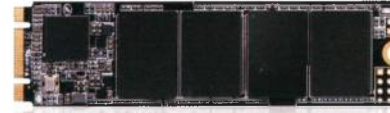
| | |
|------------|---|
| Interface | PCIe 3.0 x4 with NVMe 1.2 |
| NAND Flash | KLC |
| Capacity | 240GB / 480GB |
| Feature | <ul style="list-style-type: none"> • The first super slim graphene SSD cooling module. • The combination of graphene and copper foil can speed up the heat transfer efficiently. • NVMe interface - Support latest NVMe specification. • Support S.M.A.R.T. technology - Monitoring hard drive status efficiently. • Support TRIM - Bring out its best performance on the compatible operating system. • Product warranty - 3 years product warranty. Free technical support service. |
| Dimensions | 80.0 x 22.0 x 3.3 mm |
| Voltage | DC +3.3V |



Ⓣ FT 30

| | |
|------------|--|
| Interface | PCIe 3.0 x4 with NVMe 1.2 |
| NAND Flash | KLC |
| Capacity | 240GB / 480GB |
| Feature | <ul style="list-style-type: none"> • Extreme read/write speed - Over 2500MB/s of read speed can enhance the speed and performance of the overall system. • NVMe interface - Support latest NVMe specification. • Support S.M.A.R.T. technology - Monitoring hard drive status efficiently. • Support TRIM - Bring out its best performance on the compatible operating system. • Product warranty - 3 years product warranty. Free technical support service. |
| Dimensions | 80.0 x 22.0 x 3.1 mm |
| Voltage | DC + 3.3V |



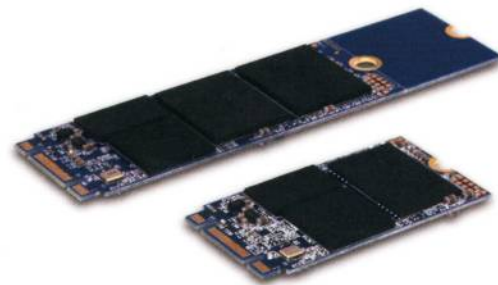


NG42

| | |
|------------|--|
| Interface | PCIe 3.0 x2 with NVMe 1.3 |
| NAND Flash | 3D NAND |
| Capacity | 128GB / 256GB / 512GB / 1TB |
| Feature | <ul style="list-style-type: none"> • Read/write speed: up to 1500/800 MB/s*(256GB). • NVMe interface: Support latest NVMe specification. • Support S.M.A.R.T. technology: Monitoring hard drive status efficiently. • Support TRIM: Bring out its best performance on the compatible operating system. • Product warranty: 3 years product warranty. • Free technical support service. |
| Dimensions | 80.1x22.0 x 3.1mm |
| Voltage | DC +3.3V |

NS 40

| | |
|------------|--|
| Interface | SATA Rev. 3.0 (6Gb/s) M.2 2242 / 2280 |
| NAND Flash | 3D NAND |
| Capacity | 128GB / 256GB / 512GB / 1TB(2280 Only) |
| Feature | <ul style="list-style-type: none"> • Read/write speed: up to 550/480 MB/s*(512GB). • Mainstream M.2 interface. • Supports Intel's SRT. • Supports S.M.A.R.T. • Supports TRIM. • DRAM-less. |
| Dimensions | 42.0 X 22.0 X 3.5 mm (M.2 2242) 80.0 X 22.0 X 3.5 mm (M.2 2280) |
| Voltage | DC +3.3V |



KL4PS5 / KL8PS5

| | |
|------------|---|
| Interface | KL4PS5 : SATA Rev. 3.0 (6Gb/s) M.2 2242 |
| NAND Flash | KL4PS5 : SATA Rev. 3.0 (6Gb/s) M.2 2280 |
| Capacity | KLC |
| Feature | <ul style="list-style-type: none"> • Mainstream M.2 interface. • Supports Intel's SRT. • Supports S.M.A.R.T. • Supports TRIM. • DRAM-less. |
| Dimensions | TM4PS5 : 42.0 X 22.0 X 3.5 mm TM8PS5 : 80.0 X 22.0 X 3.5 mm |
| Voltage | DC +3.3V |





LONGLINE CARD SERIES



| Dash Card Micro SDHC / SDXC UHS-I U1 | |
|--------------------------------------|---|
| Capacity | 8GB / 16GB / 32GB / 64GB / 128GB |
| Write Protection | No |
| Interface | SD 3.01 UHS-I |
| Dimensions | Micro SD : 15.0 X 11.0 X 1.0 mm Adapter : 32.0 X 24.0 X 2.1 mm |
| Voltage | 2.7V-3.6V |

| GO CARD(for action cameras) Micro SDXC / Micro SDHC UHS-I U3 / V30 | |
|---|---|
| Capacity | 32GB / 64GB |
| Write Protection | No |
| Interface | U3(SD3.01 UHS-I) V30(SD5.0 UHS-I) |
| Dimensions | Micro SD : 15.0 X 11.0 X 1.0 mm Adapter : 32.0 X 24.0 X 2.1 mm |
| Voltage | 2.7V-3.6V |





MIDRIVE

| | |
|------------|--------------------------|
| Capacity | 64GB / 128GB |
| Features | Compatible with Macbook |
| Interface | SD 3.01 UHS-I |
| Dimensions | 23.0 X 24.0 X 2.1 mm |
| Weight | 2.3g (with Micro SDXC) |



Micro SDXC UHS-II

| | |
|------------------|---|
| Capacity | 64GB / 128GB |
| Write Protection | No |
| Interface | SD 4.0 UHS-II |
| Dimensions | Micro SD : 15.0 X 11.0 X 1.0 mm Adapter : 32.0 X 24.0 X 2.1 mm |
| Voltage | 2.7V-3.6V |



COLOR CARD Micro SDHC / SDXC

| | |
|------------------|---|
| Capacity | 16GB / 32GB / 64GB / 128GB / 256GB / 512GB |
| Write Protection | No |
| Interface | SD 3.01 UHS-I |
| Dimensions | Micro SD : 15.0 X 11.0 X 1.0 mm Adapter : 32.0 X 24.0 X 2.1 mm |
| Voltage | 2.7V-3.6V |



COLOR CARD II Micro SDXC / SDHC UHS-I U3

| | |
|------------------|---|
| Capacity | 16GB / 32GB / 64GB / 128GB |
| Write Protection | No |
| Interface | U3(SD3.01 UHS-I) |
| Dimensions | Micro SD : 15.0 X 11.0 X 1.0 mm Adapter : 32.0 X 24.0 X 2.1 mm |
| Voltage | 2.7V-3.6V |





| | SDXC / SDHC UHS-I U3 | SDXC / SDHC UHS-I U1 | SDHC Class 10 / Class 4 |
|------------------|---|---|-------------------------|
| Capacity | SDXC : 64GB / 128GB / 256GB SDHC : 16GB / 32GB | SDXC : 64GB / 128GB / 256GB SDHC : 16GB / 32GB | 4GB / 8GB / 16GB / 32GB |
| Write Protection | Yes | Yes | Yes |
| Interface | SD 3.01 UHS-I | SDXC : SD 3.01 UHS-I SDHC : SD 3.0 UHS-I | SD 2.0 |
| Dimensions | 32.0 X 24.0 X 2.1 mm | 32.0 X 24.0 X 2.1 mm | 32.0 X 24.0 X 2.1 mm |
| Voltage | 2.7V-3.6 | 2.7V-3.6V | 2.7V-3.6V |



| | Micro SDXC / MicroSDHC UHS-I U1 | Micro SDHC Class 10 / Class 4 | CF 1000X / 600X / 400X / 233X / 133X |
|------------------|---|-------------------------------|---|
| Capacity | MicroSDXC : 64GB / 128GB MicroSDHC : 16GB / 32GB | 4GB / 8GB / 16GB / 32GB | 1000X:64GB / 128GB 600X:16GB / 32GB / 64GB 400X:8GB / 16GB / 32GB / 64GB 233X:4GB / 8GB / 16GB / 32GB 133X:4GB / 8GB / 16GB |
| Write Protection | No | No | No |
| Interface | SD 3.01 UHS-I | SD 2.0 | 1000X:CF6.0 , UDMA mode 7 600X:CF5.0 , UDMA mode 6 400X:CF4.1 , UDMA mode 6 233X:CF4.0 , UDMA mode 5 133X:CF3.0 , UDMA mode 4 |
| Dimensions | 15.0 X 11.0 X 1.0 mm | 15.0 X 11.0 X 1.0 mm | 42.8 X 36.4 X 3.3 mm |
| Voltage | 2.7V-3.6V | 2.7V-3.6V | 3.3V / 5V |





LONGLINE UFD SERIES



| | LL184 | LL146 | LL181 |
|------------|----------------------------|----------------------|-----------------------|
| Capacity | 16GB / 32GB / 64GB / 128GB | 16GB / 32GB / 64GB | 128GB |
| Color | Blue | Silver | Metallic |
| Interface | USB 3.0 | USB 3.0 | USB 3.0 |
| Dimensions | 28.0 X 28.5 X 4.7 mm | 41.0 X 12.2 X 4.5 mm | 70.0 x 15.0 x 15.0 mm |
| Weight | 12.5g | 7.2g | 47.5g |





⬇️ **LS176**

| | |
|------------|----------------------------|
| Capacity | 16GB / 32GB / 64GB / 128GB |
| Color | Black |
| Interface | USB 3.0 |
| Dimensions | 54.9 x 20.5 x 9.5 mm |
| Weight | 15g |



⬇️ **LS158**

| | |
|------------|----------------------|
| Capacity | 16GB / 32GB / 64GB |
| Color | Black |
| Interface | USB 3.0 |
| Dimensions | 24.0 X 12.2 X 7.0 mm |
| Weight | 3.4g |



⬇️ **LS158**

| | |
|------------|----------------------|
| Capacity | 16GB / 32GB / 64GB |
| Color | Black |
| Interface | USB 3.0 |
| Dimensions | 19.5 X 12.2 X 4.6 mm |
| Weight | 3.0g |



⬇️ **LS154**

| | |
|------------|----------------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB / 128GB |
| Color | Gold |
| Interface | USB 3.0 |
| Dimensions | 54.4 X 19.3 X 7.3 mm |
| Weight | 12.0g |



⬇️ **LS156**

| | |
|------------|--------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB |
| Color | Black |
| Interface | USB 3.0 |
| Dimensions | 19.5 X 17.2 X 9.7 mm |
| Weight | 3.0g |



⬇️ **P804**

| | |
|------------|--------------------------------|
| Capacity | 8GB / 16GB / 32GB |
| Color | Purple/8GB / Brown/16GB / 32GB |
| Interface | USB 3.0 |
| Dimensions | 55.5 X 17.1 X 9.2 mm |
| Weight | 11.0g |





⬇️ **LS601**

| | |
|------------|----------------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB / 128GB |
| Color | Red / Blue / Yellow / Green |
| Interface | USB 3.0 |
| Dimensions | 56.7 X 20.0 X 8.4 mm |
| Weight | 10.0g |

⬇️ **LS60**

| | |
|------------|----------------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB / 128GB |
| Color | Black / Blue / White / Brown |
| Interface | USB 3.0 |
| Dimensions | 53.8 X 18.0 X 9.7 mm |
| Weight | 15.0 |



⬇️ **K202**

| | |
|------------|-------------------------|
| Capacity | 4GB / 8GB / 16GB / 32GB |
| Color | Blue / Gray |
| Interface | USB 2.0 |
| Dimensions | 44.5 X 17 X 11.6 mm |
| Weight | 10g |

⬇️ **LS608**

| | |
|------------|--------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB |
| Color | Black / White |
| Interface | USB 2.0 |
| Dimensions | 54.9 x 20.5 x 9.5 mm |
| Weight | 15g |

⬇️ **LS 611**

| | |
|------------|-------------------------|
| Capacity | 4GB / 8GB / 16GB / 32GB |
| Color | Black / White |
| Interface | USB 2.0 |
| Dimensions | 34.1 X 14.5 X 6.1 mm |
| Weight | 3.4g |





LS631

| | |
|------------|--------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB |
| Color | White / Blue |
| Interface | USB 2.0 |
| Dimensions | 24.0 X 12.2 X 7.0 mm |
| Weight | 3.4g |



LS146

| | |
|------------|--------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB |
| Color | Silver |
| Interface | USB 2.0 |
| Dimensions | 19.5 X 12.2 X 4.6 mm |
| Weight | 3.0g |



LS143

| | |
|------------|------------------------------|
| Capacity | 8GB / 16GB / 32GB / 64GB |
| Color | Black / Silver / Blue / Pink |
| Interface | USB 2.0 |
| Dimensions | 54.4 X 19.3 X 7.3 mm |
| Weight | 12.0g |



LS141

| | |
|------------|--------------------------------------|
| Capacity | 4GB / 8GB / 16GB / 32GB / 64GB |
| Color | Purple / Red / Blue / Black / Silver |
| Interface | USB 2.0 |
| Dimensions | 19.5 X 17.2 X 9.7 mm |
| Weight | 3.0g |





Ⓢ **LS631**

| | |
|------------|--------------------------------|
| Capacity | 4GB / 8GB / 16GB / 32GB / 64GB |
| Color | Black / Blue / White / Brown |
| Interface | USB 2.0 |
| Dimensions | 53.8 X 18.0 X 9.7 mm |
| Weight | 15.0g |



Ⓢ **LS630**

| | |
|------------|--------------------------------|
| Capacity | 4GB / 8GB / 16GB / 32GB / 64GB |
| Color | Red / Blue / Yellow / Green |
| Interface | USB 2.0 |
| Dimensions | 56.7 X 20.0 X 8.4 mm |
| Weight | 10.0g |



Ⓢ **LS33G**

| | |
|------------|-------------------------|
| Capacity | 4GB / 8GB / 16GB / 32GB |
| Color | Black / White |
| Interface | USB 2.0 |
| Dimensions | 18.0 X 15.0 X 7.0 mm |
| Weight | 2.5g |



Ⓢ **P805**

| | |
|------------|---|
| Capacity | 4GB / 8GB / 16GB / 32GB / 64GB |
| Color | Purple / 4GB / 64GB Brown / 8GB / 32GB Green / 16GB |
| Interface | USB 2.0 |
| Dimensions | 55.5 X 17.1 X 9.2 mm |
| Weight | 11.0g |





H186

| | |
|------------|---|
| Capacity | 8GB / 16GB / 32GB |
| Color | Black |
| Interface | USB 2.0 & Micro USB |
| | Wireless transmission |
| Dimensions | 17.0 X 15.0 X 7.0 mm (without Adapter) 31.0 X 16.6 X 9.4 mm (with Adapter) |
| Weight | 2.5g (without Adapter) / 4.5g (with Adapter) |

H185

| | |
|------------|----------------------|
| Capacity | 8GB / 16GB / 32GB |
| Color | Gray |
| Interface | USB 2.0 & Micro USB |
| Dimensions | 31.0 X 12.0 X 4.5 mm |
| Weight | 2.1g |



H151

| | |
|------------|----------------------|
| Capacity | 16GB / 32GB / 64GB |
| Color | Black |
| Interface | USB 2.0 & Micro USB |
| Dimensions | 43.8 X 14.7 X 7.2 mm |
| Weight | 2.97g |

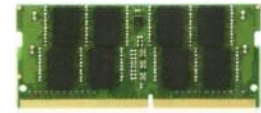
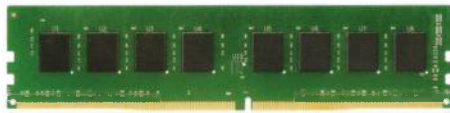
H148



| | |
|------------|----------------------|
| Capacity | 16GB / 32GB / 64GB |
| Color | Black |
| Interface | USB 3.0 & Micro USB |
| Dimensions | 37.2 X 12.5 X 4.6 mm |
| Weight | 3.2g |



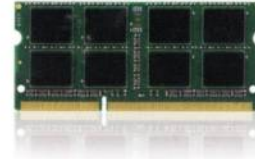


LONGLINE INDUSTRIAL APPLICATIONS



| |  DDR4 U-DIMM |  DDR4 SO-DIMM |
|-------------------|--|---|
| IFrequency | 52133MHz / 2400MHz | 2133MHz / 2400MHz |
| Pin Count | 288Pin | 260Pin |
| Capacity | 4GB / 8GB / 16GB | 4GB / 8GB / 16GB |
| DRAMConfiguration | 512 x 8 / 1024 x 8 | 512 x 8 / 1024 x 8 |
| Features | <ul style="list-style-type: none"> • Complies with JEDEC standard • Higher data bandwidth. • Lower power consumption. • High performance/High stability/Shock & Vibration/Impact resistance. • Customized firmware available for customer applications. • It is applicable to Small server and Medium workstation systems. | |
| Voltage | 1.2V | 1.2V |
| Operation Temp | 0°C-85°C | 0°C-85°C |
| Dimensions | 133.35 x 30.75 mm | 69.6 x 30.0 mm |
| Warrant | Lifetime Warranty | Lifetime Warranty |

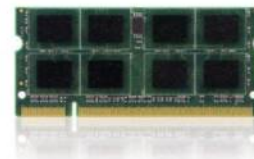




DDR3 U-DIMM

DDR3 SO-DIMM

| | | |
|--------------------|---|--------------------------------------|
| IFrequency | 1066MHz / 1333MHz / 1600MHz | 800MHz / 1066MHz / 1333MHz / 1600MHz |
| Pin Count | 240Pin | 204Pin |
| Capacity | 2GB / 4GB / 8GB | 2GB / 4GB / 8GB |
| DRAM Configuration | 256 x 8 / 512 x 8 | 256 x 8 / 512 x 8 |
| Features | <ul style="list-style-type: none"> • Complies with JEDEC standard. • Higher data bandwidth. • Lower power consumption. • High performance/High stability/Shock & Vibration/Impact resistance. • Customized firmware available for customer applications. | |
| Voltage | 1.5V / 1.35V | |
| Operation Temp | 0°C-85°C | 1.5V / 1.35V |
| Dimensions | 133.3 x 30.0 mm | 0°C-85°C |
| Warrant | Lifetime Warranty | 67.6 x 30.0 mm |
| | | Lifetime Warranty |



DDR2 U-DIMM

DDR2 SO-DIMM

| | | |
|--------------------|---|--------------------------|
| IFrequency | 533MHz / 667MHz / 800MHz | 533MHz / 667MHz / 800MHz |
| Pin Count | 240Pin | 200Pin |
| Capacity | 1GB / 2GB | 1GB / 2GB |
| DRAM Configuration | 128 x 8 | 128 x 8 |
| Features | <ul style="list-style-type: none"> • Complies with JEDEC standard. • Higher data bandwidth. • Lower power consumption. • High performance/High stability/Shock & Vibration/Impact resistance. • Customized firmware available for customer applications. | |
| Voltage | 1.8V | 1.8V |
| Operation Temp | 0°C-85°C | 0°C-85°C |
| Dimensions | 133.3 x 30.0 mm | 67.6 x 30.0 mm |
| Warrant | Lifetime Warranty | Lifetime Warranty |





Ⓣ 46L02

| | | |
|--------------------|---|--|
| Interface | SATAIII 7+15pin | SATAIII 7+15pin |
| Capacity | L series KLC : 128GB-512GB | M series KLC : 32GB-512GB P series KLC : 32GB-512GB |
| Feature | <ul style="list-style-type: none"> • Support SATA III 6Gbps and downward compatible with 3Gbps/15Gbps interface. • Complies with ATA/ATAPI-8 Spec & JEDEC specifications (industrial standard 2.5 inch). • Support SMART, TRIM / Static and Dynamic Wear-Leveling / Over-Provision / ONFI Sync/Async, Toggle / AES 128/256(25M46). | |
| Data transfer rate | Read : up to 530MB/s Write : up to 410MB/s | Read : up to 530MB/s Write : up to 510MB/s |
| Dimension | 100.1 x 69.8 x 7.0 mm | 100.1 x 69.8 x 7.0 mm |
| Voltage | 5V±5% | 5V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years | PLC @ 5 years & KLC @ 3 years |

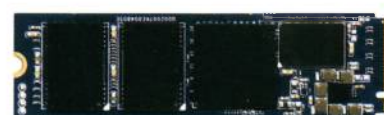
Ⓣ 46L12



Ⓣ L2Y36 / L4Y36 / L6Y36

| | | |
|--------------------|--|---|
| Interface | SATA III M.2 | PCIe M.2 |
| Capacity | M series KLC : 32GB-512GB P series KLC : 32GB-512GB | M series KLC : 256GB-1TB |
| Feature | <ul style="list-style-type: none"> • Support SATA III 6Gb/s / TRIM, NCQ, SMART / Static and Dynamic Wear Leveling / Low Power Management. • Built-in LDPC ECC. • Low power / High performance / High stability / Shock & Vibration / Slim casing / High capacity. | <ul style="list-style-type: none"> • Compliant with NVNE 1.2 • Compliant with PCIe I/II/IIIx4 Interface. • ECC can correct up to 120 bits error 2k byte data. • Support SMART and TRIM command. |
| Data transfer rate | Read : up to 555MB/s Write : up to 465MB/s | Read : up to 2750MB/s Write : up to 1500MB/s |
| Dimension | 40.0 / 60.0 / 80.0 x 22.0 x 3.8 mm | 80.0 x 22.0 x 3.8 mm |
| Voltage | 3.3V±5% | 3.3V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years | PLC @ 5 years & KLC @ 3 years |

Ⓣ K9N65





R9T46

| | |
|--------------------|--|
| Interface | SATAIII 7Pin |
| Capacity | M & L series KLC : 8GB-64GB PLC : 8GB-32GB |
| Features | <ul style="list-style-type: none"> Complies with SATA III Revision 3.1/ ATA-8 Spec / 1U. Support S.M.A.R.T., TRIM / Global wear-leveling / ONFI 2.2 Sync/Async, Toggle / write protection. ECC: Up to 66 bits/1 KB. |
| Data transfer rate | Read : up to 300MB/s Write : up to 150MB/s |
| Dimension | 33.0 × 29.5 × 1.0 mm |
| Voltage | 5V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years |



KIM23

| | |
|--------------------|--|
| Interface | SATAIII 7+15Pin |
| Capacity | M series KLC : 32GB-128GB PLC : 16GB-256GB P series KLC : 16GB-256GB |
| Features | <ul style="list-style-type: none"> Complies with SATA III Revision 3.0 / ATA-8 Spec / JEDEC specifications(MO-297). Support 6Gb/s, 3Gb/s, 1.5Gb/s, ATA-8 Spec /S.M.A.R.T., TRIM / wear-leveling / ONFI Sync/Async, Toggle. Built-in LDPC. |
| Data transfer rate | Read : up to 520MB/s Write : up to 460MB/s |
| Dimension | 39.0 × 54.0 × 4.0 mm |
| Voltage | 5V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years |



K2M25

| | |
|--------------------|--|
| Interface | SATA III 6Gb/s mSATA 52-Pin |
| Capacity | M series KLC : 16GB-256GB P series KLC : 16GB-256GB |
| Feature | <ul style="list-style-type: none"> Complies with SATA III Revision 3.0 / ATA-8 Spec / JEDEC specifications(MO-300A). Support 6Gb/s, 3Gb/s, 1.5Gb/s, ATA-8 Spec / S.M.A.R.T., TRIM / wear-leveling / ONFI Sync/Async, Toggle. Built-in LDPC. |
| Data transfer rate | Read : up to 555MB/s Write : up to 495MB/s |
| Dimension | 50.8 × 29.8 × 4.0 mm |
| Voltage | 3.3V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years |



K2M15

| | |
|--------------------|---|
| Interface | SATA III 6Gb/s mSATA 52-Pin |
| Capacity | M series KLC : 32GB - 256GB P series KLC : 32GB - 256GB |
| Feature | <ul style="list-style-type: none"> Complies with SATA III Revision 3.0 / ATA-8 Spec / JEDEC specifications(MO-300A). Support 6Gb/s, 3Gb/s, 1.5Gb/s, ATA-8 Spec / S.M.A.R.T., TRIM / wear-leveling / ONFI Sync/ Async, Toggle. ECC: Up to 66 bits/1 KB. |
| Data transfer rate | Read : up to 510MB/s Write : up to 300MB/s |
| Dimension | 50.9 × 30.0 × 4.9 / 3.9 mm |
| Voltage | 3.3V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years |



Micro SD

| | |
|--------------------|---|
| Interface | SD2.0 / 3.0 8Pin |
| Capacity | PLC : 128MB-4GB KLC : 4GB-64GB |
| Feature | <ul style="list-style-type: none"> Support Security CPRM (Content Protection Recordable Media) / ECC / SPI mode / Lock/Unlock, Write Protect and Erase. Complies with EMI/RoHS. |
| Data transfer rate | PLC : Read : up to 21MB/s / Write : up to 18MB/s KLC : Read : up to 90MB/s / Write : up to 80MB/s |
| Dimension | 15.0 x 11.0 x 1.0 mm |
| Voltage | 2.7-3.6V |
| Warranty | PLC @ 5 years & KLC @ 3 years |

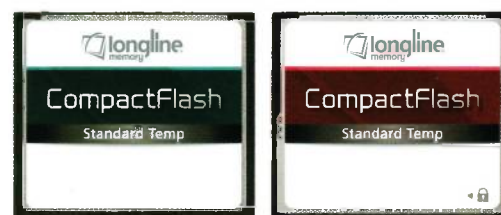
SD Card

| | |
|--------------------|---|
| Interface | SD2.0 / 3.0 9Pin |
| Capacity | PLC : 128MB-4GB KLC : 4GB-128GB |
| Feature | <ul style="list-style-type: none"> Support Security CPRM (Content Protection Recordable Media) / ECC / SPI mode / Lock/Unlock, Write Protect and Erase. Complies with EMI/RoHS. |
| Data transfer rate | PLC : Read : up to 65MB/s / Write : up to 55MB/s KLC : Read : up to 95MB/s / Write : up to 90MB/s |
| Dimension | 32.0 x 24.0 x 2.1 mm |
| Voltage | 2.7-3.6V |
| Warranty | PLC @ 5 years & KLC @ 3 years |



XDF21

| | |
|---------------|---|
| Interface | CFast 7+17Pin |
| Capacity | PLC : 1GB-32GB / KLC : 4GB-128GB |
| Feature | <ul style="list-style-type: none"> Complies with SATA III Revision 3.0 & ATA/ATAPI-8 Support Static and Dynamic Wear Leveling / 1.5Gbps, 3Gbps and 6Gbps / S.M.A.R.T., TRIM / NCQ / ONFI Sync/Async, Toggle. ECC: Up to 72 bits/1 KB industrial devices with limited spaces. |
| Data transfer | Read : up to 520MB/s Write : up to 190MB/s |
| Dimension | 42.8 x 36.4 x 3.3 mm |
| Voltage | 3.3V±5% |
| Warranty | PLC @ 5 years & KLC @ 3 years |



XD841 / XD842 / XD846 / XD849

| | | | | | | | |
|---------------------|--|---------------|---------------|---------------------|--------------------|---------------------|---------------------|
| Interface | 50Pin PCMCIA / ATA | | | | | | |
| Capacity | KLC : 16GB-256GB / PLC : 512MB-64GB (CF921 / CF922) KLC : 8GB-128GB / PLC : 512MB-16GB (CF938 / CF939) | | | | | | |
| Feature | <ul style="list-style-type: none"> Complies with CF 6.0/ATA-8 specification. Support PC CARD MEMORY MODE PC CARD I/O MODE TRUE IDE MODE. Support PIO(0-6) / Multiword DMA (0-4) / UDMA (0-7) / PCMCIA UDMA (0-7) / Support S.M.A.R.T., TRIM / Global wear-leveling. ECC: Up to 72 bits/1 KB. | | | | | | |
| Data transfer | <table border="0"> <tr> <td>CF921 / CF922</td> <td>CF938 / CF939</td> </tr> <tr> <td>Read: up to 130MB/s</td> <td>Read: up to 70MB/s</td> </tr> <tr> <td>Write: up to 70MB/s</td> <td>Write: up to 30MB/s</td> </tr> </table> | CF921 / CF922 | CF938 / CF939 | Read: up to 130MB/s | Read: up to 70MB/s | Write: up to 70MB/s | Write: up to 30MB/s |
| CF921 / CF922 | CF938 / CF939 | | | | | | |
| Read: up to 130MB/s | Read: up to 70MB/s | | | | | | |
| Write: up to 70MB/s | Write: up to 30MB/s | | | | | | |
| Dimension | 42.8 x 36.4 x 3.3 mm | | | | | | |
| Voltage | 5V±5% | | | | | | |
| Warranty | PLC @ 5 years & KLC @ 3 years | | | | | | |





+90 212 321 75 15
www.longlinememory.com
info@longlinememory.com

