

High Speed 1.5Gbps Transfer Serial ATA-IDE Bridge LSIs



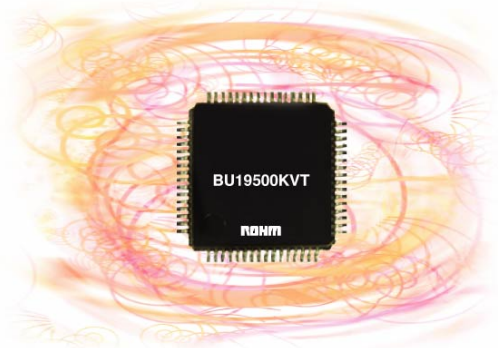
BU19500KVT/BU19510KVT

ROHM has developed the first serial ATA-IDE bridge LSIs in Japan compatible with Serial ATA 1.0a. The BU19500KVT and BU19510KVT utilize a simple design and can transfer large volumes of data at high speed (1.5Gbps) between various serial ATA and parallel ATA devices.



Features

- Conforms to the newest SATA standard (Serial ATA 1.0a)
- 1.5Gbps high speed transfer rate
 - Serial signal: bidirectional transfer of parallel signals possible
 - Supports the needs of both the storage and set sides
- Industry's best eye pattern
- Unmatched jitter characteristics (40Ps)
- Low power consumption design



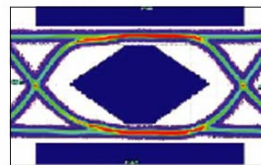
Applications

- Car navigation systems, HDD-equipped DVD recorders, HD recorders, notebook computers, TVs, copy machines, digital video cameras, monitor cameras, servers, game consoles, digital audio players, printers, measuring equipment, communication devices, registers, industrial computers, testers, analysis equipment, and the like.

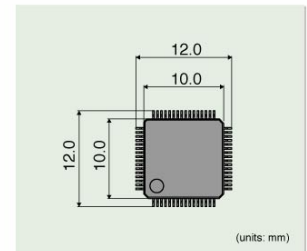


Eye Pattern

Clear eye pattern with no distortion



External Dimensions



Lineup

Part Number	Specifications	Power Supply Voltage (V)	Operating Temperature Range	Data Transfer Rate	Spread Spectrum Clock (SSC)	Operating Mode		External Clock	Package
						Host Mode	Device Mode		
NEW BU19500KVT	Serial ATA rev. 1.0a-compliant	1.8V, 3.3V±10%	0°C~+70°C	1.5Gbps	Yes	Serial ATA device	Parallel ATA device	25MHz	TQFP64V
☆ BU19510KVT			-40°C~+85°C			Parallel ATA device	Serial ATA device		HTQFP64V

☆ : Under Development