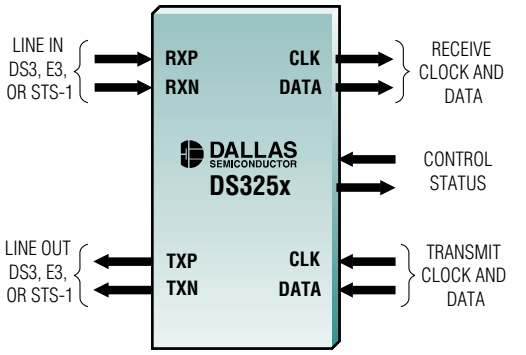
TINY MULTIPORT T3/E3 LIUs HAVE ADVANCED FEATURES AND SAVE BOARD SPACE

The DS3251, DS3252, DS3253, and DS3254 are small, low-cost LIUs that interface at the physical layer to multiple T3, E3, or STS-1 lines. Each LIU consists of a receiver, transmitter, and built-in jitter attenuator. The receiver recovers incoming clock and data for cable lengths up to 1200 feet. The transmitter drives waveshapes with excellent template compliance onto the outgoing cable. Each channel of the LIU is independently configurable for T3, E3, or STS-1, and is compliant with all ANSI, ITU, ETSI and Telecordia standards.

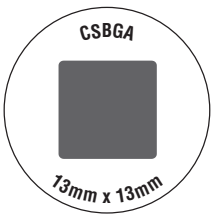
Advanced Features (DS325x)

- **No External Crystal Oscillator Required in Most Systems, Saving Board Space and $3 to $4† per Board**
- **Built-In Clock Adapter Generates All Line-Rate Clocks from a Single-Input Clock (DS3, E3, STS-1, OC-3, 19.44MHz, 38.88MHz, or 77.76MHz)**
- **Three Options for Status and Control: 8-Bit Parallel Bus, SPI™ Serial Bus, and Hardware Mode**
- **Jitter Attenuators Have Provisionable Buffer Depth: 16 Bits, 32 Bits, 64 Bits, or 128 Bits**
- **Pin Compatible with First Generation DS315x Family**

66% Smaller than the Competition*



Part	Number of Ports	Tiny 13mm CSBGA Package	JA	B3ZS/HDB3 Encoding/Decoding	CLAD	SPI Bus Mode	JA with Provisionable Buffer Depth
DS3151	1	✓	✓	✓	—	—	—
DS3152	2	✓	✓	✓	—	—	—
DS3153	3	✓	✓	✓	—	—	—
DS3154	4	✓	✓	✓	—	—	—
DS3251	1	✓	✓	✓	✓	✓	✓
DS3252	2	✓	✓	✓	✓	✓	✓
DS3253	3	✓	✓	✓	✓	✓	✓
DS3254	4	✓	✓	✓	✓	✓	✓



SPI is a trademark of Motorola, Inc.
*For the 4-channel LIU.
†Based on 1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.

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