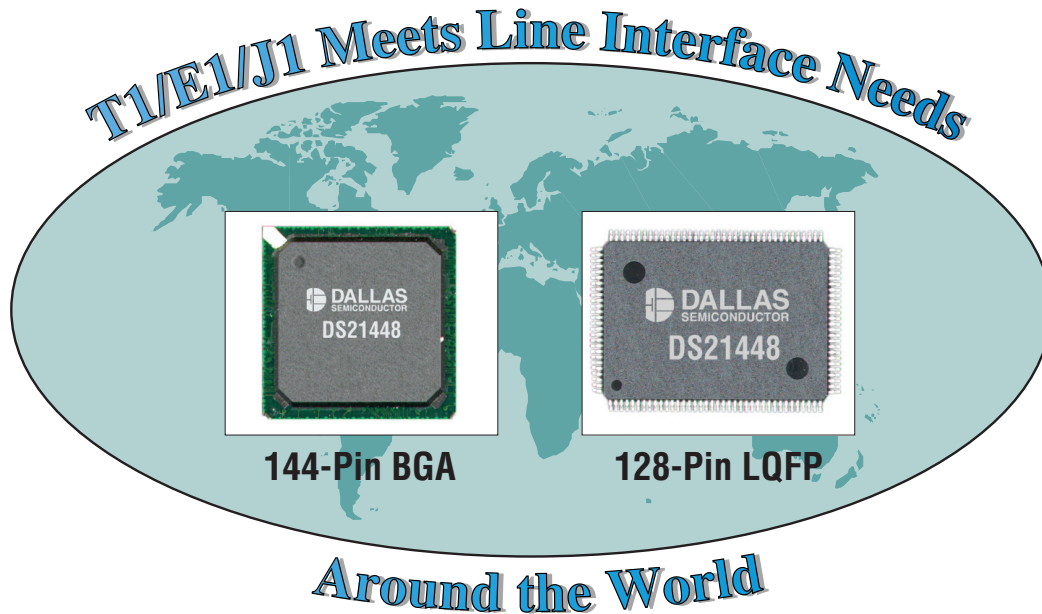


T1/E1 LIU MEETS GLOBAL NEEDS, COMBINES SHORT- AND LONG-HAUL TRUNKS

The full-featured DS21448 four-channel line interface unit (LIU) operates from a single 2.048MHz clock and combines long and short haul. It is offered in two monolithic packages—a 144-pin BGA, which is a direct replacement to the DS21Q348, and a 128-pin LQFP.



Universal Functionality

- ◆ AMI, HDB3, and B8ZS Encoding/Decoding
- ◆ Parallel, Serial, and Hardware Data Interface

Built-In Flexibility

- ◆ Connects to 120 Ω , 100 Ω , or 75 Ω Networks Without Relays or FET Switches
- ◆ 128-Bit Crystal-Less Jitter Attenuator
- ◆ Synthesizes 1.544MHz from 2.048MHz Master Clock for T1/J1 Operation

Diagnostic Capabilities

- ◆ Loopbacks and PRBS Generation/Detection
- ◆ Receive Carrier Loss (RCL) Indication

High Density at Low-per-Port Cost

- ◆ Two Monolithic Package Options—144-Pin BGA and 128-Pin LQFP
- ◆ Industry's Lowest Cost of \$4.50[†] per Port

[†]10,000-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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