

OctaIFRAMER

8 Channel E1/T1/J1 Framer
PEF 22557 E



OctaIFRAMER is the latest addition to Infineon's market leading FALC® family of highly advanced E1/T1/J1 components. The eight channel E1/T1/J1 framer is suitable for wide variety of network equipment including SDH/SONET Add Drop Multiplexer and digital cross connects.

The OctaIFRAMER features a unique clock generation unit that accepts any reference clock between 1.02 and 20MHz.

Using industry leading Evaluation support tools, system developers can shorten design cycles while creating a wide range of highly flexible, low BOM E1/T1/J1 line cards.

Applications

- Broadband Wireless Access
- Multi-service access platforms
- Digital loop carriers
- Remote access servers/concentrators
- SONET/SDH Add/Drop multiplexers
- Digital Cross connects

Features

- ITU-T G.704 frame alignment/synthesis for 2.048/1.544 Mbit/s
- Programmable frame formats
 - E1: Double- & CRC Multi-frame
 - T1: F4, F12 (D4), Ext. Super Frame (ESF), F72 (SLC96)
- Detects and generates LOS, AIS and RAI alarms
- CRC-4 performance monitoring
- PRBS generation and monitoring
- Detects & generates LOS, AIS & RAI alarms
- System bus data rate scalable from 1.544 Mbit/s up to 16 Mbit/s
- Synchronization Status Message (SSM) generation and extraction

HDLC Controllers

- 24 HDLC controllers (three per channel) including 128-bytes deep FIFO buffers each
- CAS controller with micro-processor or system interface serial access
- Supports signaling system #7
- ANSI T1.403 Bit-Oriented Messages (BOM)
- Generates periodical performance reports

General Features

- Software compatible to QuadFALC and OctaFALC
- Meets Japanese standards including JT G.703, 704, 706, I.431
- Intel® or Motorola® type 8/16-bit micro-processor interface
- Serial SPI bus and serial SCI bus slave interfaces
- Low power (60 mW per channel typical)
- Dual voltage 1.8 V/3.3 V
- PG-LBGA-256, 17x17mm with 1.0mm ball pitch
- -40°C to +85°C operation
- Rohs compliant package

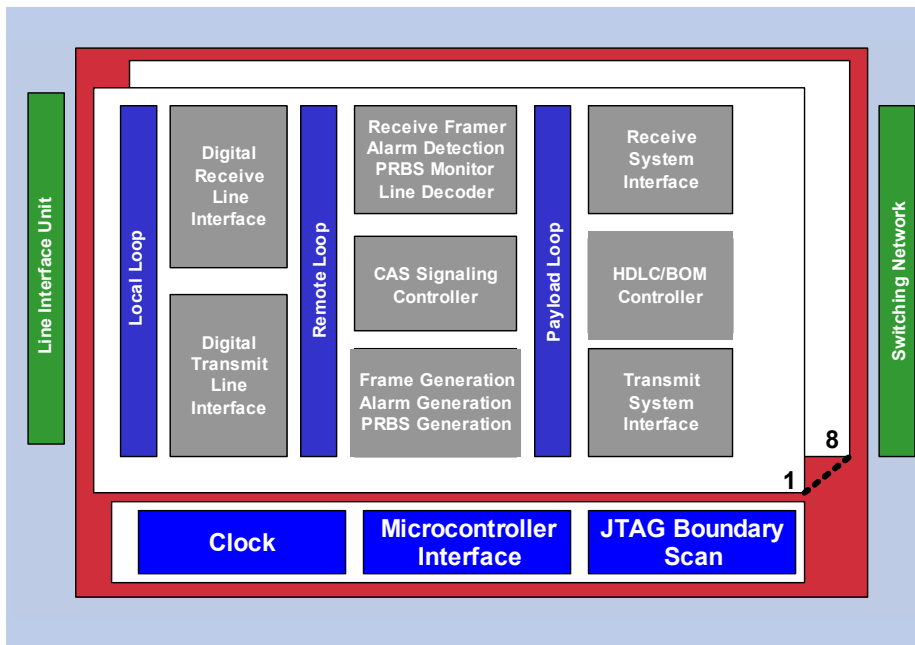
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COMMUNICATION



Never stop thinking.

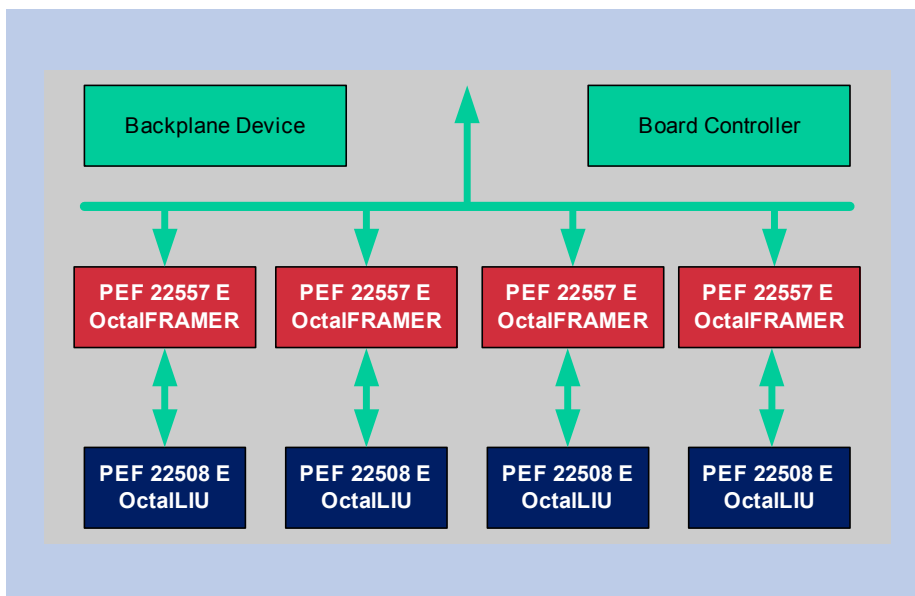
Block Diagram OctalFRAMER



Ordering Information

Type	Description	Package
PEF 22557	8 channel E1/T1/J1 Framer	PG-LBGA-256

Application Example



How to reach us:

<http://www.infineon.com>

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