

E1, Nx64, Ethernet

wire-speed

conversion

FlexGain FlexCON

TDM and Ethernet
Interface Converters



Features

- E1, nx64, Ethernet interface conversion
- Selectable bandwidth control
- Easy maintenance
- Compatibility with FlexDSL Orion modem family

Modern networks combines both TDM and Ethernet transport methods in case of delivering services that customers really need. Meanwhile there is quite big amount of old TDM - based networks that could be upgraded to "DATA – ready" state in easy and cost-effective way. From the other hand some modern networks provide only data services while TDM applications were undeservedly forgotten. FlexCON products are especially designed for Carriers and Telco who want to wash out the borders between TDM and Packet world.

The FlexGain FlexCON interface converters family was designed with simplicity and flexibility in mind. It could be divided into two main branches:

- Packet to TDM converters

This branch is used for Ethernet or N.64 data transmission over E1 TDM based networks.

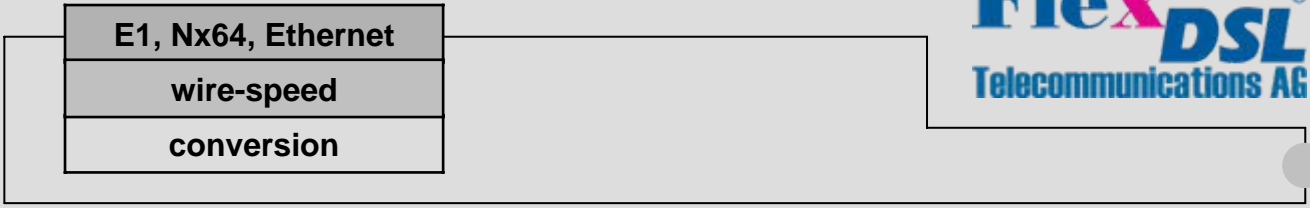
- TDM to Packet converters

This branch is used for E1 streams transmission over Packet Networks

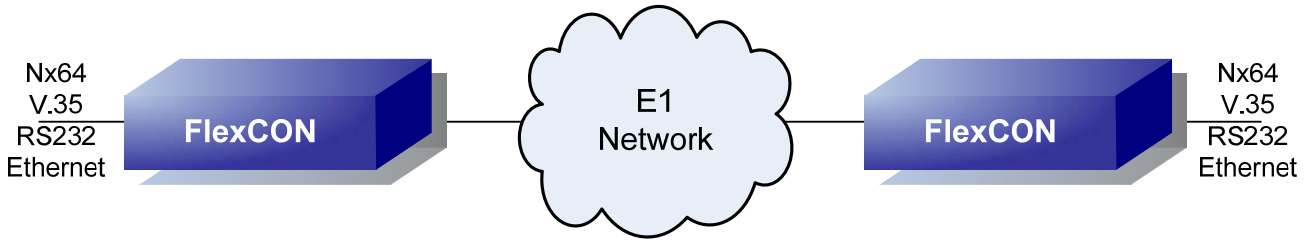
FlexDSL Telecommunications AG pays special attention to compatibility and reliability issues. FlexCON family use same platform as FlexDSL Orion and FlexDSL Discovery families.

Main applications are represented on the second page.

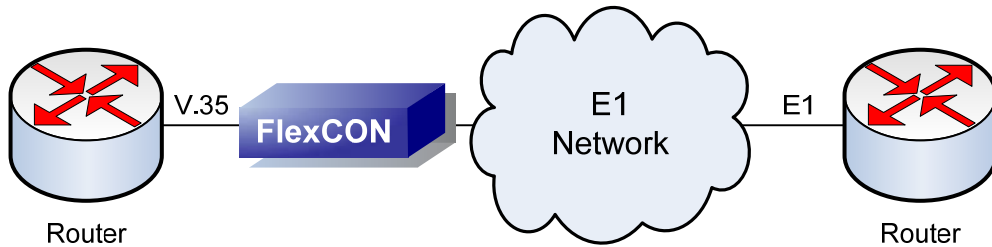
Specifications are subject to change without notice



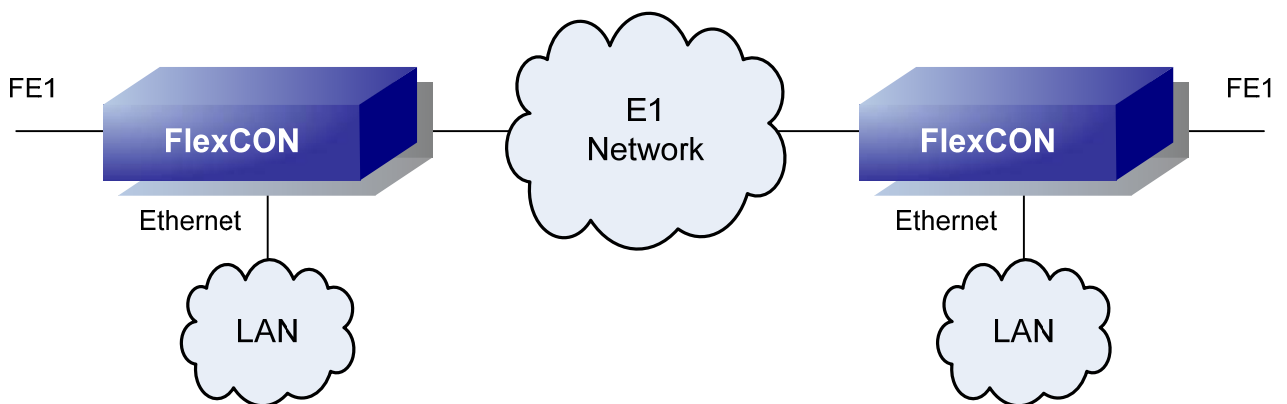
FlexCON Packet over TDM applications



Basic Point-to-Point application allows different types of Data transmission over E1 network. All major features of E1 and Data interfaces like CRC, Timing Source, Time Slot occupation could be easily selected.



Several ISPs routers have E1 data interface with framed structure while old V.35 interface still popular for SOHO routers. FlexCON could be used for such interconnection.

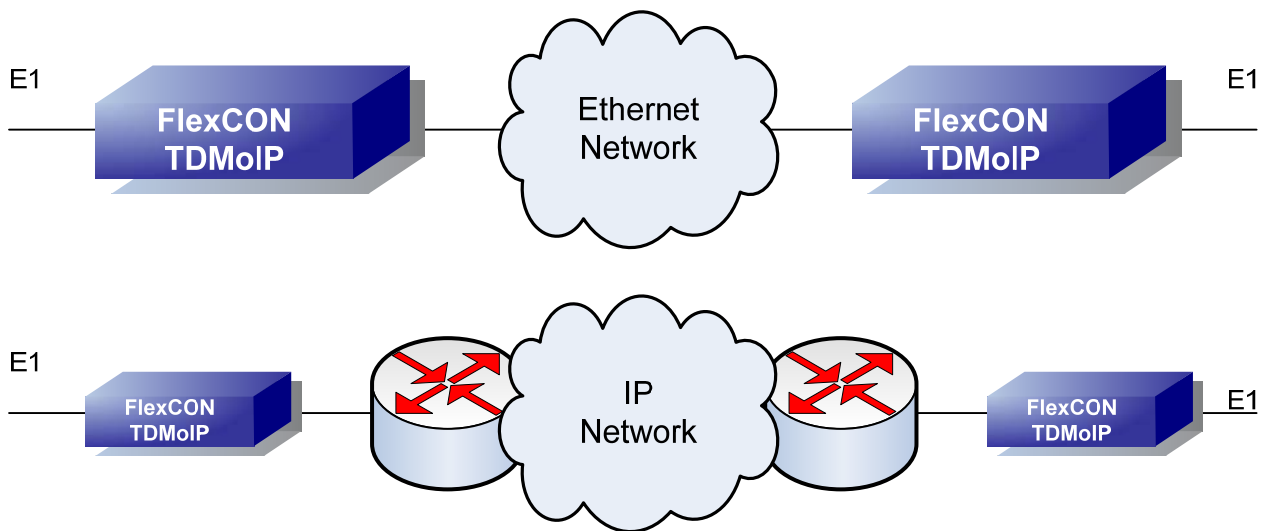


FlexCON also could be used for Ethernet + Fractional E1 (FE1) transmission over E1 network. This application is important when Carrier has limited E1 channels in core network but customers want Ethernet data transmission as well. FlexCON allows flexible bandwidth selection with 64 kbit/s step

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FlexCON TDM over Packet applications



FlexCON TDMoIP units were designed for single E1 channel transmission over packet network. They support all important technology like VLAN and ToS. FlexCON could send TDM data in UDP or RAW formats. If Packet network has one or more routers, UDP protocol must be selected. FlexCON modules have internal G.703 clock generation and recovery features as well as jitter suppression methods.

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