

Offering Broadband Services over existing TDM Network

► WireSpan 628F ◀ 8/16 Mbps Inverse Multiplexer

Description

WireSpan 628F is a 4(8) E1 inverse multiplexer capable of transporting high speed data [LAN], MPEG-2 or new broadband services over 1 to 4(8) E1 links.

WireSpan 628F uses a proprietary E1 frame based aligning method to split broadband data into 1 to 4(8) E1 links for transporting over PDH/SDH network. At a remote peer, the 1~4(8) E1 links can be identified and aligned sequentially to recover inversely to the original broadband data with limited delay among the E1 links.

WireSpan 628F is equipped with LAN interface for broadband data services. The bandwidth of WireSpan 628F transport is scalable as $N \times 1.984 \text{ Mbps}$ [$N=1\sim 4(8)$]. The maximum payload bandwidth of WireSpan 628F is 8 Mbps [7.936Mbps] or 16 Mbps [15.872Mbps].

WireSpan 628F is supported by a set of local and remote Operation, Administration, Maintenance and Provisioning (OAM&P) facilities. These facilities include SNMP LAN interface, Telnet, RS-232C craft interface (CID) and NMSView. NMSView Graphical User Interface offers a user-friendly and easily adaptable interface with a variety of configuration, management and maintenance options.

The remote configuration and OAM&P are achieved through WireSpan 628F's 12Kbps embedded operational channel (EOC). To facilitate various application environments, WireSpan 628F has a 19-inches wide, 1U height standalone unit as well as a 19-inches wide.

Features

- Connect one high speed broadband over 1~4 (8)E1 links
- Scale E1 links down automatically according to E1's availability or alarm conditions
- Support data rates from $N \times 1.984 \text{ K}$ [$N=1\sim 8$]
- Support 12Kbps EOC channel for remote configuration and OAM&P
- Support 10/100 Base-T and 1000 Base-T(optional) DTE interfaces
- Comply with ITU-T G.703 PCM31C format
- Allow maximum delay of 64 ms among E1 links

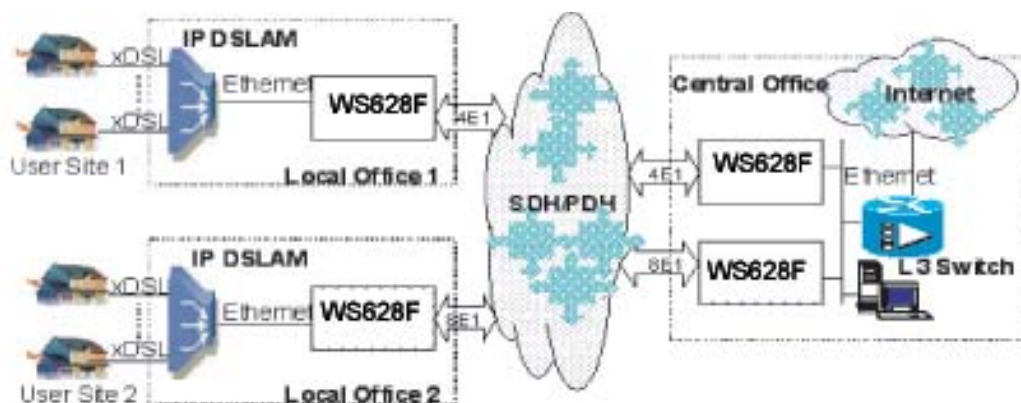


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Specification

- **Inverse multiplexing**
Algorithm:proprietary method by labeling E1 frames
Maximum allowable delay among E1 links: 64 ms
[512 frame buffer]
E1 frame is labeled from 1~512 by using SA7-SA8 spare bits
Data rate: 7.936 Mbps or 15.872Mbps
12Kbps EOC channel is embedded in SA4-SA6 spare bits.
- **E1 interface**
No. of E1: 1~4(8),scaled down automatically per E1 alarms
E1 frame: PCM31C
Meet ITU-T G.703 and G.704 standard
Line code: HDB3
Rates: 2.048Mbps +/- 50 ppm
Impedance: 75 ohm unbalanced or 120 ohm balanced,
software programmable
Jitter requirements: Meet ITU-T G.823
- **LAN interface**
10/100 base-T or 1000 base-t (option),
IEEE 802.3u,802.3z
MAC Address filtering bridge which supports
up to 1024 MAC address learning
Bridge: IEEE 802.1 D self learning
Data rate: Nx1.984Mbps [N=1~4(8)]
Connector: RJ-45, 2 ports
Max.packet size=1536 or 1916 Bytes (option)
VLAN (option)
- **Fiber interface [option]**
One 100M base-FX 802.3u or GBIC 802.3z
fiber interface module is optional and
the detail specification is required like fiber type,
wavelength and power.
- **Network management**
Supports VT-100/RS-232C, telnet and SNMP protocols.
NMS GUI tool
- **Power**
AC or DC or AC+DC is optional
AC: 90 - 260 V @ 50-60 Hz, 0.2A
DC: -36 - 72 V
- **Alarm and Performance Monitoring**
Meet G.821 and G.826 for E1 interface
Fiber interface;LOS,LOF
Standalone:Form C dry relay alarm output
- **Maintenance**
Loopback: LL,RL and NL(local payload loopback)
- **Mechanic dimension**
Standalone:
W x H x D : 435 x 44.45 x 200mm
- **NOTE**
Line card of the shelf can only support 10/100
base-T or 100 base-FX

Application



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Ver.1.0

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