IMXi-4

Intelligent Inverse Multiplexer

Bridge the Gap between E1/T1 and E3/T3 Bandwidth with Ethernet and TDM Intelligent Inverse Multiplexing

Does your LAN or high speed traffic exceed 2 Mbps/1.5 Mbps, yet not justify the cost of an E3/T3 pipe? RAD's IMXi-4 intelligent inverse multiplexer bridges the gap between E1/T1 and E3/T3, cost-effectively transporting your LAN or high speed data traffic across multiple, low cost TDM E1/T1 links.

Cost-Effective LAN Extension (LAN over WAN)

As broadband communications increase, so does the need for higher WAN bandwidth (above E1/T1 data rates). Whereas the price of E1/T1 links has been steadily declining in recent years, E3/T3 pipes are still very costly. Moreover, they are not always readily available, and are often overkill for the traffic capacity.

RAD's IMXi-4™ enables cost-effective high speed transmissions – such as transparent LAN services (TLS) or any other high speed data stream – over the wide area network (WAN) by splitting the traffic onto multiple E1/T1 or SHDSL links.

Use Your Ethernet-Based Equipment in a TDM Environment

IMXi-4 transfers Ethernet packets transparently, enabling service providers to use their next generation equipment in a TDM environment. And wireless providers can plug their IP-based equipment into the Ethernet uplink of the IMXi-4, for connecting to the Ethernet-based central site over the TDM network. The pure Ethernet payload carried by the IMXi-4 eliminates the need to invest in conversion equipment between Ethernet/IP and TDM.

Achieves Higher Data Rates and Longer Distances

IMXi-4 carries your 2 Mbps/1.5 Mbps traffic to distances of up to 6.6 km (4.1 miles) over copper lines, without the need for additional equipment. You benefit from the flexibility of SHDSL, which enables you to increase the distance by adjusting the data rate. Support for SHDSL increases the throughput of four E1/T1 lines to 8.07 Mbps.

Improves Security

Splitting the traffic onto four trunks makes it more difficult to intercept and rebuild the data, effectively increasing the security of the transmission. And since IMXi-4 does not interfere with the content but sends the data transparently, there is no ability to view the actual payload.

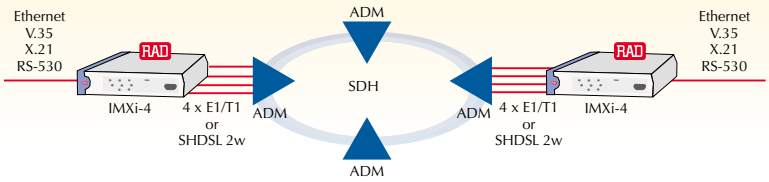
Product Profile

RAD
data communications

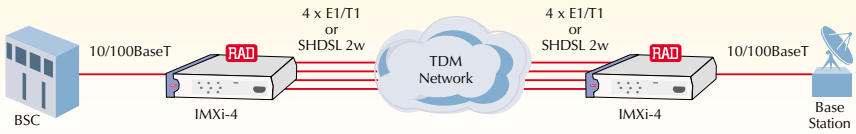
www.rad.com

Choose Your Preferred Management Method

Local and remote IMXi-4 units can be managed by an SNMP CORBA-based network management system, for remote troubleshooting and configuration. The units can also be managed via Telnet or an ASCII terminal through a dedicated timeslot.



Corporate LAN over WAN



Ethernet over TDM in a cellular environment for management of wireless equipment

Product Details

- Plug-and-play unit
- Crossed link correction
- ETSI rack installation-ready
- Uplink interface: 4 x E1/T1 (G.703) or SHDSL (2 wires)
- User interface: 10/100BaseT Ethernet bridge or router, including VLAN support (user-selectable), V.35, V.36, X.21, RS-530
- Power supply: 100–240 VAC or –48 VDC
- Maximum throughput: 8.07 Mbps over SHDSL, 6.85 Mbps over E1 or 5.48 Mbps over T1
- Maximum distance of 2 Mbps traffic: 6.6 km (4.1 miles)
- Management port: RS-232 or Ethernet management options (SNMP agent, ASCII terminal, Telnet, RADview™ CORBA-based NMS, local and remote management and dedicated timeslot)

For complete product specifications, please see the data sheet online at www.rad.com.

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