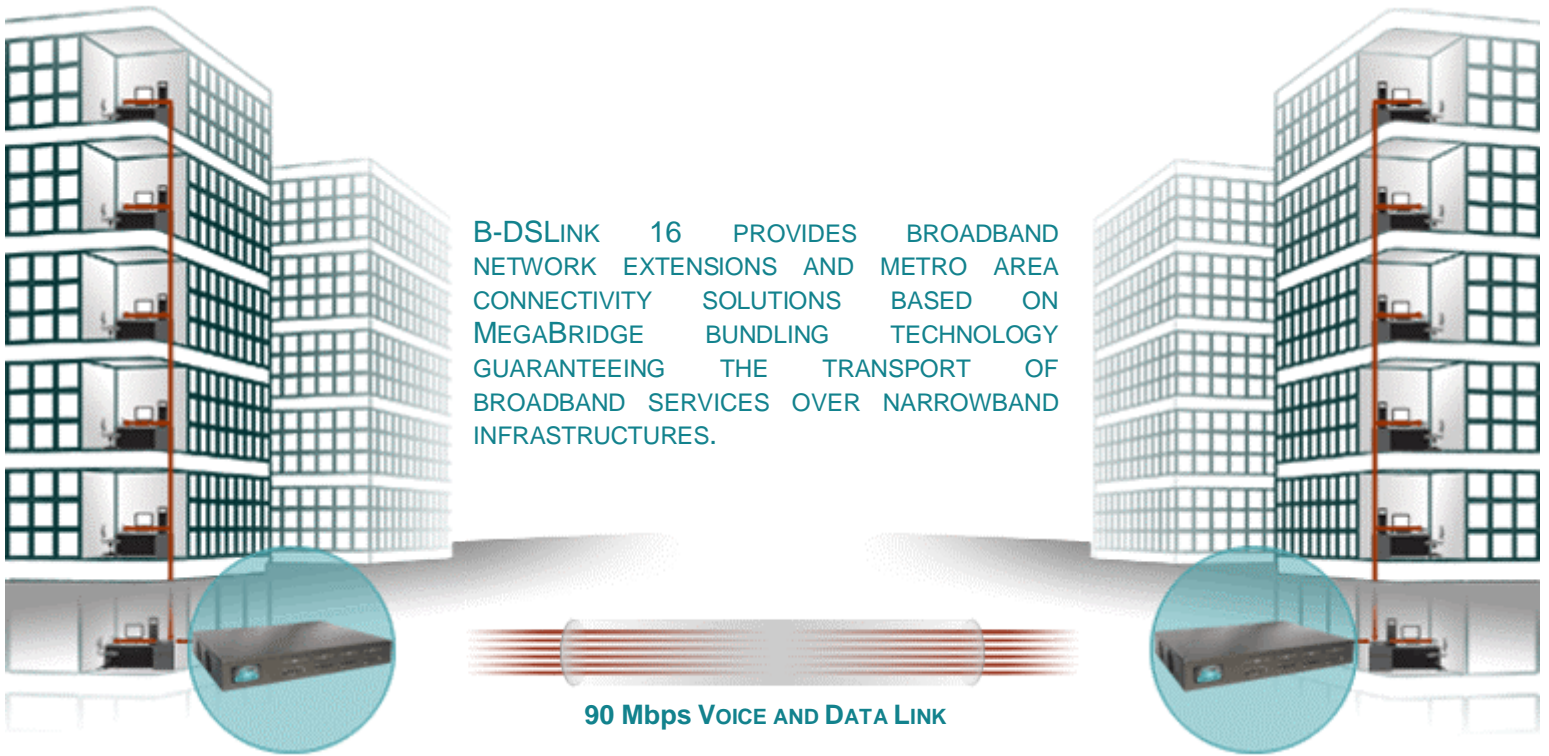




B-DSLINK 16

DATA SHEET



- **SIMULTANEOUS VOICE AND DATA TRANSPORT**
- **BUILT-IN NATIVE REDUNDANCY MODE**
- **TWO LEVEL PROTECTION SCHEME**
- **INHERENT E1/T1 SIGNALING PROTECTION**

- **DIFFERENT LINK SPEEDS WITH FULLY INDEPENDENT UP AND DOWN DIRECTIONS**
- **EXTREMELY LOW DELAY AND JITTER**
- **PLUG-AND-PLAY OPERATIONAL MODE**
- **REMOTE POWERING CAPABILITY**

BENEFITS

B-DSLINK based on **BUNDLE LINK TECHNOLOGY** developed to provide a transport of broadband services to the local loop over existing access network infrastructures. The key to this technology is the use of a bundle of available medias as a single broadband link to deliver voice, video and data services. The bundling algorithm, combining advantages both fragmentation and division multiplexing approaches, allows maximum utilization of each physical connection, providing reliable and cost effective solutions for creating broadband network extensions.

SIMULTANEOUS VOICE AND DATA TRANSPORT

SIMULTANEOUS VOICE AND DATA TRANSPORT is carried into effect by the dividing information stream sources into the strictly rationed data portions and by distributing them over the medias composing a virtual link. Each data portion consists of circuits allocated in accordance with the specified **QUALITY OF SERVICE** scheme. This approach guaranties transparent information transfer providing origin stream source quality and makes **B-DSLINK** solutions unique for applications where requirements for co-existence of **CARRIER CLASS VOICE** and **DATA** services are mandatory.

BUILT-IN NATIVE REDUNDANCY MODE

BUILT-IN NATIVE REDUNDANCY MODE guaranties an automatic reallocation of the **VOICE** and **DATA** services between interface links in cause of the single link failure. The instant reallocation of the services with the **CARRIER CLASS RECOVERY TIME** less than 50 ms makes **B-DSLINK** suitable for network transport applications.

GROUP LEVEL RECOVERY

GROUP LEVEL RECOVERY provides reliable service under a failure of whole interface group by the redirecting of collapsed information streams to the valid interface group.

INHERENT DS1 (E1/T1) SIGNALING PROTECTION

INHERENT E1/T1 SIGNALING PROTECTION mechanism duplicates frame and signaling time slots over separate interface links to increase upper protocol immunity and to provide error free signaling transmission under **BER** environment.

DIFFERENT LINK SPEEDS WITH FULLY INDEPENDENT UP AND DOWN DIRECTIONS

DIFFERENT LINK SPEEDS over single interface group offer easy **B-DSLINK** deployment scheme guarantying maximum bundle performance with the resulting aggregation rate equal to

the sum of information rates of each of them. **FULLY INDEPENDENT UP AND DOWN DIRECTIONS** allow the using of asymmetrical links inside the single interface group.

EXTREMELY LOW DELAY AND JITTER

EXTREMELY LOW DELAY AND JITTER provides transparent transport of the **CARRIER CLASS AND DATA** services across the network infrastructures.

PLUG-AND-PLAY OPERATIONAL MODE

PLUG-AND-PLAY OPERATIONAL MODE requires no initial product configuration providing default routing of **CARRIER CLASS VOICE** and **DATA** services to the interface groups on one hand and implementing dynamic link speed adaptation mechanism on other hand. The simplicity of the product configuration allows to minimize maintenance procedures and to reach maximum interface utilization without user intervention.

REMOTE POWERING CAPABILITY

REMOTE POWERING CAPABILITY provides no field-power installation method supplying safety 120V line feed voltage accompanied with short current protection scheme and power feeding alarm reports.



SPECIFICATIONS

NETWORK LINK INTERFACES

G.SHDSL LINK INTERFACE

Up to Two Eight Pairs G.SHDSL-8 Link Cards
ITU G.991 G.SHDSL Compliant
Up to 36.8 Mbps aggregated rate with standard PAM-16 mode
Up to 90.8 Mbps aggregated rate with extended PAM-32 mode
Dynamic Line Adaptation Mechanism
Configurable BER Thresholds
Remote Powering Capability
DB-25 Line Connector

E1/T1 LINK INTERFACE

Up to Two E1/T1-8 Link Cards
ITU G.703, G.704 Compliant
N*64 / N*56 Kbps Aggregation Capability
Up to 32 Mbps (E1) / 24.704 Mbps (T1) aggregated rate
Link Operation Clock Mode: Plesio, Local, Remote
Line Codes: AMI, CMI, NRZ, HDB3, B8ZS
Received Signal: 0 to 36 db
Build Output: 0 db, 1.5 db, 2.2 db, 7.5 db
Haul Mode: Short, Long
Four Wire, Balanced 120 Ohm
Eight RJ-48 Connectors

USER PORT INTERFACES

ETHERNET TRAFFIC PORT INTERFACE

10/100 BaseT Ethernet Port
Auto-Negotiation
RJ-45

E1/T1 PORT INTERFACE

E1/T1-4 Port Card
ITU G.703, G.704 Compliant
Module Operational Clock Mode: Plesio, Local, Remote
Line Codes: AMI, CMI, NRZ, HDB3, B8ZS
Received Signal: 0 to 36 db
Build Output: 0 db, 1.5 db, 2.2 db, 7.5 db
Haul Mode: Short, Long
Four Wire, Balanced 120 Ohm
Four RJ-48 Connectors

DATA QoS AND PERFORMANCE

DATA QoS SUPPORT

Automatic Traffic Prioritization based on:
IEEE 802.1p and IPv4 ToS (precedence bits)

DATA TRAFFIC PERFORMANCE

140 000 pps (packets per second) Overall Performance

OPERATION AND MAINTENANCE INTERFACES

ETHERNET MANAGEMENT PORT INTERFACE

10 BaseT Ethernet Port
RJ-45

TERMINAL MANAGEMENT PORT INTERFACE

RS 232, 9600 bps
DB-9 Connector

ALARM INTERFACE

N.O. and N.C. 72V/200mA Dry Contacts
3 Pins Terminal Block Connector

POWER INTERFACE

AC Power: 85/265 VAC, 50/60 Hz
DC Power: -36/-72 VDC
Maximum Power Consumption: 70 W

INSTALLATION PARAMETERS

PHYSICAL DIMENSIONS

W/H/D 445mm (17.5") / 64mm (2.5") / 335 mm (13.2")

ENVIRONMENT

Operating: -20°C to +60°C, 5% RH to 95% RH
Storage: -40°C to +85°C, 95% RH Max

COOLING

Two Temperature Controlled FANs
FAN Redundant Operation Mechanism and Alarm Reporting

REGULATORY AND STANDARDS

ETSI EN300386
EN60950
CE Mark
FCC Part 15 (Class A) Ready
FCC Part 68 Ready
NEBS Ready