

# MODULAR ISDN DATA ACCESS SOLUTION

M I D A S

PRI

## DISTINCTIVE CHARACTERISTICS

- ◆ Smart PRI ISDN Card
  - ◆ Dual T1/E1/PRI
  - ◆ ISDN Call Setup available for Europe, Japan, Australia or North America
  - ◆ Total Advanced Prototype Solution
    - Q.931 + Q.921 + Chip Drivers
    - Complete Design Package with 2 cards
  - ◆ TeleSoft API
  - ◆ Call Control/Data Transfer Interfaces
    - MVIP for B-channels
    - Dual-Port RAM for D-channels
  - ◆ Ideal for PBXs, Routers, and Bridges
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- ◆ Enables High Margin/Low Cost Products
  - ◆ Minimizes Technology Risks
  - ◆ Cuts Time-to-Market by 60% or more



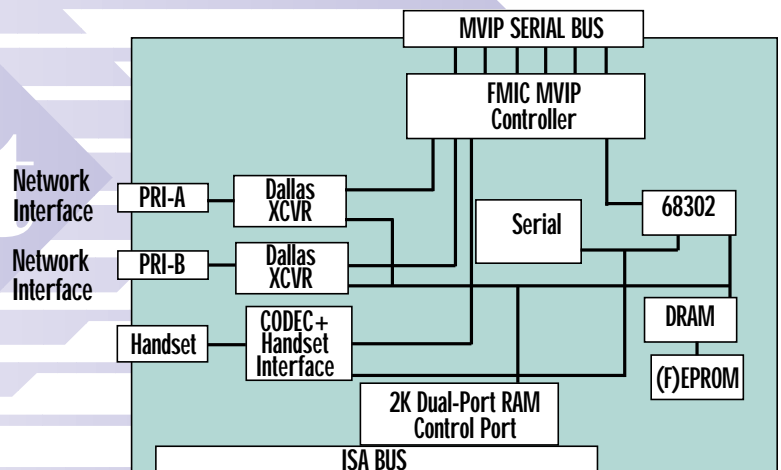
## TECHNOLOGY TRANSFER FOR OEMs

The MIDAS-PRI is one member of a growing family of MIDAS (Modular ISDN Data Access Solution) products that are designed specifically to meet the needs of OEMs and ODMs for fast development of low cost ISDN products.

Each MIDAS product is a Technology Transfer Package that gives you full control over your product design and direction.

You can customize to differentiate, add value or change form factor. You have full flexibility for your first and future products because MIDAS includes a complete Hardware Design Kit and Software Source Code Kit. You get schematics, Gerber files, board layout and component listings, and fully functioning cards.

# TeleSoft



MIDAS-PRI Functional Block Diagram

## MIDAS-PRI Specifications and Physical Network Interface

Type	Internal PC Card
Network Protocols Supported	US NI-2+TR41459+DMS100; EuroISDN ETSI NET5; Australia TS-014; Japan INSnet1500
Network Interface	4-Wire Dual T1/E1 PRI-1.544 Mbps/2.048 Mbps
Processor	MC68LC302-20 MHz
DRAM	Standard: 256 KBytes; Optional 512 K or 1024 KBytes
Shared RAM/Address	2 KBytes
ROM/EPROM/FLASH	Standard: 256 KBytes; Optional 128 K or 512 KBytes
Flash EPROM	Standard: 128 KBytes; Optional 256 KBytes
Power Supply Requirements	+ 5 Vdc
Dimensions: H x W	4.5 x 9 in.
External Connectors on PC Card	Voice: RJ8 receptacle (4-wire to handset) PC: Standard 16-bit ISA PC connector Network: Dual RJ48C Female receptacles MVIP: Standard 40-pin connector
Software Utilities	Power on self-test; Shared RAM interface for loading/executing ISDN software (RAM or Flash EPROM based)
API Software Utility	TeleSoft Standard Application Programming Interface

### E1 MODE #

Network Interface Mode	CSU (G.703 75 $\Omega$ ), CEPT PCM-30, ISDN PRI, 120 $\Omega$ and 75 $\Omega$
CSU Drive Capability	600 meters
Line Build Out	Software selectable (0, -7.5, -15 dB)
Loopbacks	Local and Remote
Interface Standards	ITU G.703, G.704, G.706, I.431, AT&T TR 62411, UL 1459
Framing formats	FAS, CAS, CRC4, G.732
Line formats	HDB3 or AMI
E1 Alarms	AIS, Remote, Red, Yellow & Blue
DLC (Sa) Support	Yes
Signaling Supported	Q.931/Q.921 Message based; CAS, Sa, Si
Transmit Clock Source	Received channel clock, External clock, Onboard crystal

### T1 MODE #

Network Interface Mode	CSU (DS1) and DSX-1 modes, ISDN PRI
DSX-1 drive capability	500 feet
CSU drive capability	5000 feet on 22AWG
Line build out	Software selectable (0, -7.5, -15 dB)
Loopbacks	Local and Remote
Interface Standards	ANSI T1.403, ITU G703, G.704, I.431, AT&T TR62411, 54016 (FT1), UL 1459
Framing formats	D4, ESF, SLC-96
Line formats	AMI, B8ZS
T1 Alarms	Red, Yellow & Blue
FDL Support	Yes
Signaling Supported	Q.931/Q.921 Message based; Robbed Bit
Transmit Clock Source	Received channel clock, External clock, Onboard crystal

# The specifications included in this datasheet describe the capabilities of the hardware and software unless otherwise noted. Capabilities of the hardware not supported by the MIDAS software are italicized.



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