

Intraplex® DS-64NC

LAN/Wideband Synchronous Data Module





GatesAir's Intraplex DS-64NC Wideband Synchronous Data Module provides transmission of LAN or synchronous data at rates up to 1.984 Mbps.

The DS-64NC plugs into Intraplex access products, allowing wideband data to be combined with other types of payload channels for transport over T1 (1.5 Mbps), E1 (2 Mbps), and other high-speed digital lines.

Key Features

- Selectable data rate from 8 kbps to 1.536 Mbps in T1 multiplexers, and from 8 kbps to 1.984 Mbps in E1 multiplexers (8 kbps increments)
- One-way or full-duplex operation
- Fully independent send and receive timing (at the same nominal rate in both directions)
- Integrated Ethernet bridge (MA-427): IEEE 802.3 with 10,000 MAC address storage, 15,000 fps filtering, and 256-frame buffer capacity
- 10BaseT, V.35, X.21, or RS-449 interface
- DTE or DCE configuration
- Clear channel operation, even on AMI T1 networks
- Built-in test pattern generator and error analyzer

Specifications

Specifications and designs are subject to change without notice

General				
System Compatibility	The DS-64NC is compatible with Intraplex T1, E1, and Ethernet access products.			
Operating Modes	Transmit-only, receive-only, or full-duplex			
Data				
Data Ports	 Data rates (8 bps increments) T1: 8 kbps to 1.536 Mbps E1: 8 kbps to 1.984 Mbps 			
Data Format	No restrictions on data contentSupports clear channel for T1 AMI networks			
Transmit and Receive Buffers	Selectable: 64 bits, or 12 kb deep buffers to support plesiochronous operation			
Timing	 DTE: Synchronizes network to send or receive timing input; provides terminal timing output synchronized to the network DCE: Provides send and receive timing synchronized to the network; can synchronize the network to terminal timing 			

Specifications (continued)

Input/Output Modules					
Data Interface	Configurable for 10BaseT, RS-449, V.35, or X.21, DCE or DTE, by selection of appropriate module adapter (see <i>Connectors</i> , below)				
Signals Supported	 10BaseT: UTP (Tx+, Tx-, Rx+, Rx-) V.35: RTS, CTS, RLSD, DSR, LT RS-449: RS, CS, RR, DM, TM X.21: T, R, C, I, S 				
Connectors	Each DS-64NC requires one module adapter (MA), which provides a data I/O connector and an RJ-11 timing I/O connector	Adapter MA-412 MA-414 MA-413 MA-415 MA-420 MA-421 MA-428	Interface RS-449, DCE RS-449, DTE V.35, DCE V.35, DTE X.21, DCE X.21, DTE 10BaseT, UTP	Connector DB-37S DB-37P DB-37S DB-37P DB-15S DB-15P RJ-45	
Network Interface					
Time Slot Selection	 Selectable use of adjacent or alternate time slots Time slot 16 can be skipped for CAS usage in an E1 system 				
Time Slot (DS0) Assignments	56 or 64 kbps per time slot, with unused bits set to logic 1				
Clear Channel Capability	For T1 AMI networks: Alternate time slot use per AT&T TR-54019, or 56 kbps per time slot with 8th bit set to logic 1				
Status and Diagnostics					
LED Indicators	 Service on/off Transmit activity Receive activity Loopback active Buffer overflow or underflow Received errors (pattern bit errors) 				
Loopbacks	Equipment, network, and remote loopback capability				
Test Patterns	 Generates and detects test patterns for one-way or loopback testing Patterns are all-ones, a single one with 15 zeroes, and 2¹⁵–1 quasirandom sequence Error light flashes when bit errors are detected 				
Physical and Environmental					
Nominal Power Consumption	0.4 watts				
Temperature	0 °C-50 °C operating				
Humidity	0%–90% noncondensing				