

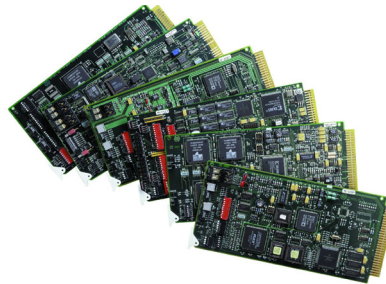


INTRAPLEX® DS-64NC

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.



- 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

Intraplex® DS-64NC

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	<ul style="list-style-type: none"> • Data rates (8 bps increments) • T1: 8 kbps to 1.536 Mbps • E1: 8 kbps to 1.984 Mbps
Data Format	<ul style="list-style-type: none"> • No restrictions on data content • Supports clear channel for T1 AMI networks
Transmit and Receive Buffers	Selectable: 64 bits, or 12 kb deep buffers to support plesiochronous operation
Timing	<ul style="list-style-type: none"> • 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

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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	<ul style="list-style-type: none"> • 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	<i>Adapter</i> MA-412 MA-414 MA-413 MA-415 MA-420 MA-421 MA-428	<i>Interface</i> RS-449, DCE RS-449, DTE V.35, DCE V.35, DTE X.21, DCE X.21, DTE 10BaseT, UTP	<i>Connector</i> DB-37S DB-37P DB-37S DB-37P DB-15S DB-15P RJ-45
Network Interface				
Time Slot Selection	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Generates and detects test patterns for one-way or loopback testing • Patterns are all-ones, a single one with 15 zeroes, and $2^{15}-1$ 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			