The Intraplex DA-191A and DA-191B asynchronous data modules each provide four RS-232 or RS-422 data interfaces.

- DA-191A: Asynchronous data rates up to 19.2 kbps
- DA-191B: Asynchronous data rates up to 38.4 kbps

The modules plug into Intraplex access products, allowing data channels to be combined with other types of payload channels for transport over T1 (1.5 Mbps), E1 (2 Mbps), Basic Rate ISDN and other high-speed digital lines.

The DA-191A and DA-191B employ a technique known as transitional coding which allows transmission of any asynchronous data rate up to and including the user's data rate setting with no further rate selection required, and without the need for selection of start bits, stop bits, or parity.

Key Features

- Four independent data inputs
- RS-232 or RS-422 interfaces
- One-way or full-duplex operation
- End-to-end compatibility between DA-191A and DA-191B when using common data rate settings

Specifications

Specifications and designs are subject to change without notice

General	
System Compatibility	The DA-191A and DA-191B are compatible with Intraplex T1, E1, ISDN, and variable-rate access products.
Data	
DA-191A	1–4 ch . . . . 4.8 kbps 1–4 ch . . . . 9.6 kbps 1–2 ch . . . . 19.2 kbps
DA-191B	1–4 ch . . . . 9.6 kbps 1–4 ch . . . . 19.2 kbps 1–4 ch . . . . 38.4 kbps
Jitter	• Three-bit transitional coder to minimize data jitter, with mark for idle state • At maximum input rate, worst-case output data jitter is 15% (proportionally lower for lower input rates)
Input/Output Modules	

Data Interface	• RS-232 DCE, asynchronous, one-way or full-duplex, with optional RS-422 electrical levels
	• Signal levels are selected by the choice of module adapter:
	  – MA-404 module adapter for RS-232 signal levels
	  – MA-418 module adapter for RS-422 signal levels
	• Each DA-191A and DA-191B requires either an MA-404 or an MA-418

Signals Supported	• RS-232: TD, RD, RLSD, CTS (fixed active), Signal Ground • When used with an MA-418 for RS-449/RS-422 levels, only transmit data, receive data, and signal ground are supported
Connectors	Both the MA-404 and MA-418 provide four RJ-11 connectors for the four data ports
Network Interface	
Time Slot (DS0) Assignments	• DA-191A: One time slot for two 9.6 kbps, four 4.8 kbps, or one 19.2 kbps channel; two contiguous time slots for four 9.6 kbps or two 19.2 kbps channels • DA-191B: One time slot for two 9.6 kbps or one 19.2 kbps channel; two contiguous time slots for four 9.6 kbps, two 19.2 kbps, or one 38.4 kbps channels; four contiguous time slots for four 19.2 kbps or two 38.4 kbps channels; eight contiguous time slots for four 38.4 kbps channels
Status and Diagnostics	
LED Indicators	Data in, data out
Loopbacks	Payload loopback toward network
Physical and Environmental	
Nominal Power Consumption	1.2 watts
Temperature	0 °C – 50 °C operating
Humidity	0% – 90% noncondensing