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NGS-2104
NETDAS SERIAL DATA INTERFACE MODULE



OVERVIEW

The NGS-2104 module provides an interface to four differential serial inputs, which are configured via firmware and user settings to meet almost any standard or custom application requirements. Refer to the table on the following page for the available options.



The various input types that are supported include:

- **Asynchronous.** Data Rates up to 1.9432 Mbaud and can include status flags for stale, overflow and framing errors. No processing of data is performed; received data is treated as an embedded asynchronous format. FIFO buffering is provided to handle burst input data. Options for non-standard baud rates are available, contact the factory for details.

- **Asynchronous with Message Processing.** The module looks for a user defined sync pattern and then places each user specified message byte into a unique output word position. Options include time stamping receipt of the message and performing checksum calculations on the entire message.

- **Synchronous SDLC.** This mode uses two of the serial inputs to support input data streams with an associated input clock. Data messages are delimited by the standard flag pattern, which is present when there is no activity on the input. When activity is present, each word is input and written to a FIFO for subsequent insertion into the output format. Options include input word size, clock phase and MSB/LSB input data orientation.

- PCM. This mode uses two of the serial inputs to support input data with an associated input clock. The mode supplies a frame synchronizer and allows the user to configure the sync criteria including errors and sync patterns. Data that is decommutated is written to a FIFO for subsequent insertion into the output format. Options include input common word size, clock phase, selectable fill pattern and MSB/LSB input data orientation.

- **Specialized Interfaces.** In these modes, multiple signals are used to handshake with an external customer device to synchronize, initiate and control the transfer of data. Signals supplied by the NGS in this mode can include Enable that is asserted during an entire word transfer sequence: Load which initiates a specific word transfer and the clock. The external device responds to these signals with one or more words having the user specified length.

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The following table identifies the supported serial interfaces by the different versions that are readily available. Within each version, the user has the ability to configure the channels for a specific set of serial input types; for example, the NGS-2104-3 can be configured as follows:

- **4 Standard Async Channels**
- **2 Standard Async Channels and 1 SDLC/PCM Channel**
- **1 SDLC Channel and 1 PCM Channel**
- **2 SDLC or 2 PCM Channels**

Module	Standard Async	Async with Message Decode	Synchronous SDLC	PCM	Specialized Interfaces	Non-Standard Async Data Rates
NGS-2104-3	X		X	X		
NGS-2104-4	X	X				
NGS-2104-5					X	
NGS-2104-9	X	X	X	X		
NGS-2104-17	X	X				X
NGS-2104-18	X	X	X	X		X

Custom versions to meet unique customer requirements can be easily accomodated via FPGA firmware changes. Contact the factory for information.

SPECIFICATIONS

Number of Inputs	4, Configurable per module type
Input Type	Differential
Power	+3.3V, 330 mA (Typical)
Memory Size	16 Mb
Status	Input Type Dependent Async - Status included with each measurement Sync/Message - Unique measurement providing status for the input channel

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