

Model INT-9903

PCI FDM Baseband to ITU-T (CCITT) E1 Transmultiplexer

FEATURES:

- Baseband input frequency range DC – 20 MHz
- Demultiplexes 32 Voice Grade Channels (VGC), each 4KHz wide
- Single standard PCI card
- Independent tuning and gain control for each VGC
- Tuning step size 1Hz, upright or inverted sideband select
- ITU-T (CCITT) E1 output (31 VGC's)
- NRZ Data and Clock outputs
- PCI host may access digitized baseband and/or demultiplexed VGC's
- Dual channel audio (left / right stereo) outputs
- Accepts optional frequency reference clock input

- Flexible all digital design platform for additional custom applications
- Baseband digitizer 16 bits up to 100Msps (AD6645)
- Eight extremely versatile Quad DDC Digital Down Converters (GC4016)
- Up to 8M gate FPGA for complex signal processing (XC2V8000)
- DDC's and FPGA configured by host across PCI interface for complete flexibility

APPLICATIONS:

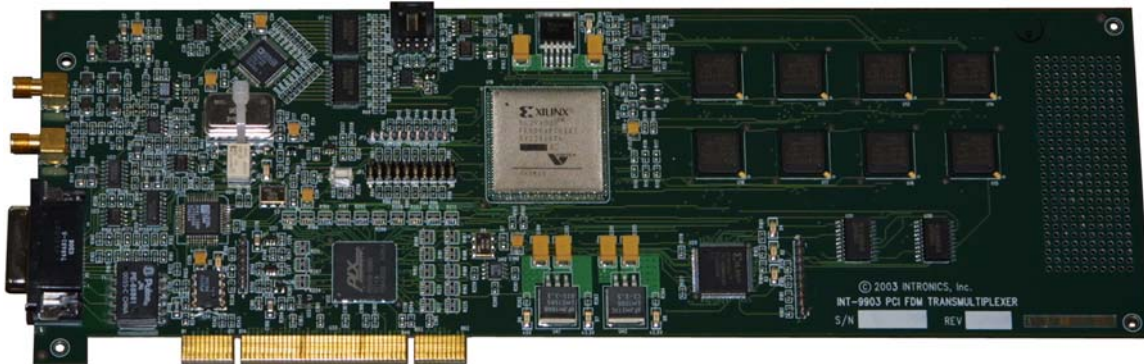
- Conversion and re-mapping of legacy FDM VGC's to digital PCM
- Performance and quality surveillance of FDM signals
- Signals analysis laboratory
- Flexible platform for custom digital signal processing (DSP) applications

GENERAL DESCRIPTION:

The INT-9903 transmultiplexer accepts a frequency division multiplex FDM baseband input. Thirty one embedded 4kHz wide voice grade channels (VGC's) are demultiplexed and output both as an ITU-T E1 PCM signal and as NRZ data and clock signals. Two VGC's may also be selected as analog audio outputs. Each VGC may be either upright or inverted sideband and may be located at any frequency within the baseband. The transmux is a single standard length PCI Bus printed circuit board that is compatible with many host computers and software operating systems. Multiple cards may be installed in a single host computer, limited only by the number of free PCI slots available.

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SPECIFICATIONS:

FDM Baseband Input	DC – 20 MHz
Impedance	50 or 75 Ohms (optional)
Maximum Amplitude	+/- 0.5V
Dynamic Range	20 dBm
Signal Connector Type	SMA
FDM Demultiplexer	32 Channels
Tuning Step Size	1 Hz
Sideband Select	Upright / Inverted
VGC Passband	600 Hz – 3400 Hz
VGC Passband Ripple	0.1 dB
VGC Gain Control	+/- 40 dB
Transmultiplexer Outputs	Mini DB-26 Connector
ITU-T (CCITT) E1	2048 Kbps, G.712, G.703 AMI / HDB3 120 Ohms, Balanced
NRZ Data and Clock	E1 G.712 framed LVDS, RS422 or PECL
Audio	Select two demultiplexed VGC's Stereo, AC Coupled, +/- 1V pp max
PCI Host Interface	PCI Local Bus Specification Revision 2.2 Full width card 33 or 66 MHz Bus Speed
Frequency Reference Clock Input	2048 kHz, +/-0.5V min square wave SMA connector
Operating Temperature	0 – 50C non-condensing
Power Consumption	5W (typical)

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