MultiDyne
Video & Fiber Optic Systems

ANDIG-2500-BR
Transmitter & Receiver

Analog 10MHz Reference + 33Mb/s BTS
Fiber Optic Transport Link

Complete Fiber Optic Transport Solution

The ANDIG-2500 (transmitter or receiver) is a complete fiber optic transport solution for extending a pure analog 10MHz sinusoidal reference signal, and an ASI, SMPTE 33Mb/s data stream over two fibers.

Typically used for studio-to-transmitter links (STL) or studio-to-studio, the 1RU frame houses two power supplies in both the transmitter and receiver units, providing full power redundancy on both sides.

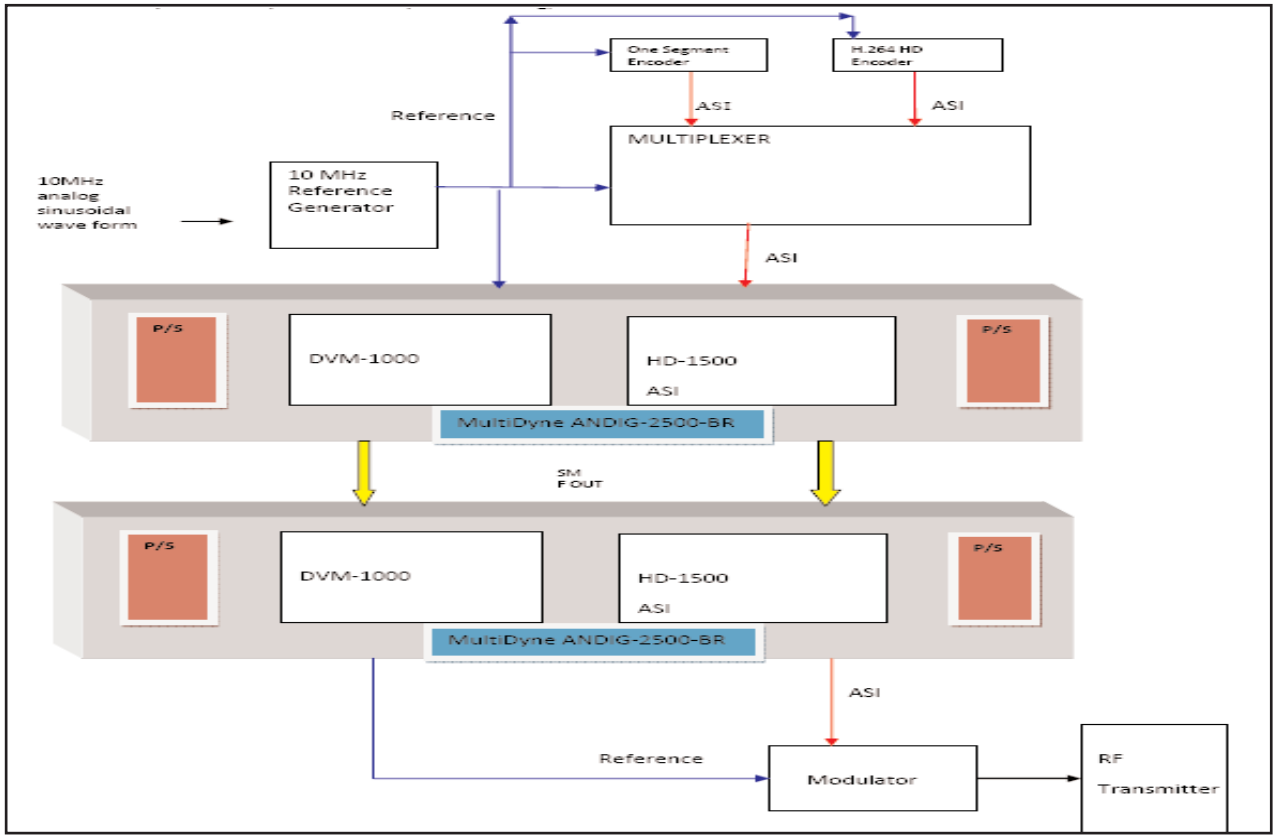
The ASI 33Mb/s data stream transmitter input has two BNC connectors offering a convenient loop-through feature. The analog section has front panel adjustments for gain, and up to 300m of EQ. The input impedance can be set to 50 ohm or 75 ohm impedance.

Both the transmitter and receiver have video and optical front panel status indicators with dry alarm relay contacts. The ANDIG-2500 receiver has a dual output for the 33Mb/sec data stream, with SMPTE reclocking and EQ.

FEATURES & BENEFITS

- An economical solution for the fiber transport of an analog 10MHz clock signal and a 33Mb/s ASI data stream over two singlemode fibers
- Complete transmitter or receiver system in a 1RU frame
- Redundant power supply
- Dual reclocked outputs for ASI (transmitter)
- Looping inputs for ASI (receiver), equalized, re-clocked, buffered
- Singlemode link distance up to 24KM
- FC optical connectors
- Analog signal bandwidth of 11.5MHz
- Analog signal gain and 300m cable equalization adjustments for input & output
- Front panel status indicators for optical, video, and sinusoidal signals with dry alarm relay contacts

APPLICATION DIAGRAM



SPECIFICATIONS for 10MHZ Sinusoidal Signal

Supports amplitude in a 2Vpp- 5Vpp window (this can be adjusted)
Signal to noise……>85dB
Signal to noise + TDH……...>80dB
Frequency response DC to 10 MHz .....< +/- 0.1 dB
3 dB Bandwidth .....>11.5MHz
Luminance non-linearity .....< 0.2 %
Ringing .....< +/- 0.5 %
Tilt .....< +/- 0.2 %
Input & output impedance……75? or 50?, set at factory

SPECIFICATIONS for 33Mb/s ASI Stream

Input……BNC looping
Input Impedance……75?
Input Return Loss……>15dB up to 1500Mb
Jitter……< 0.15 UI (SMPTE measured)
Output……Dual, re-clocked with EQ
Output return loss……>15dB up to 1500MHz

SPECIFICATIONS for Fiber Input & Output

Fiber Input/Output Connector Type ……ST, LC or FC
Wavelength……1310 Singlemode
Input Sensitivity 10MHz, transmitter ……-20 dBm
Input Sensitivity 33Mb, receiver ……-20 dBm
Typical Output power 10Mhz transmitter…-5 dBm
Typical Output power 33Mbps transmitter -8 dBm

GENERAL SPECIFICATIONS

Power Dissipation……8W
AC operation……110VAC or 220VC autosensing
Operating temperature……0 - 50C
Physical dimensions……1RU; 1.75in(H) x 19in(W) x ?
Gross weight of transmitter……TBD
Gross weight of receiver……TBD
Country of origin & manufacturing……United States of America

ORDERING INFORMATION

Fiber Optic transport of Broadcast transport Stream (BTS) & 10MHz Sinusoidal Clock Reference

ANDIG-2500-BR Transmitter	Fiber transport of an analog 10MHz sinusoidal clock signal, and a 33Mb ASI data stream over two singlemode fibers - transmitter unit
ANDIG-2500-BR Receiver	Fiber transport of an analog 10Mhz sinusoidal clock signal, and a 33Mb ASI data stream over two singlemode fibers - receiver unit
PS-2500 Power Supply	Slide-in power supply module for ANDIG-2500-BR Transmitter or receiver units

MultiDyne
Video & Fiber Optic Systems

MultiDyne Video & Fiber Optic Systems
191 Forest Avenue
Locust Valley, NY 11560
Tel: +1 (516) 671-7278
Fax: +1 (516) 671-3362
sales@multidyne.com