

Optic Node

OX 733 / OX 732 / OX731



Sharp Vision offers unique **Optic Nodes** for converting even weak optical signals from transmitter to a high quality RF signal. There are many models of Optical Nodes to cater to various network designs. The range includes very high input sensitivity and high CNR models for large networks. Visual optic level display has been provided for ease of system maintenance.

Specifications:

- RF Freq. : 40 ~ 860MHz
- Optic Wavelength : 1290~1600nm
- O/P Level Var. : 0 ~ 20 dB
- Variable Slope : 0 ~ 20 dB
- Good Flatness : ± 0.75 dB
- Mains Power : 220VAC $\pm 10\%$
- Power Pass Volt. : 30 ~ 60VAC



Models:

OX 733

- Triple IC Node
- High Sensitivity of -8dBm
- High CNR
- RF O/P 113dBuV at 0dBm Optic I/P
- LED Bar Optic Level Display

OX 732

- Double Hybrid IC Node
- Good Sensitivity of -6dBm
- High CNR
- RF O/P 105dBuV at 0dBm Optic I/P
- LED Bar Optic Level Display

OX 731

- Conversion IC only
- Very High CNR
- RF O/P 80dBuV at 0dBm Optic I/P



An International Quality Product from **ANALOG SYSTEMS**
www.sharpvisiononline.com

Optic Node OX 731

Applications

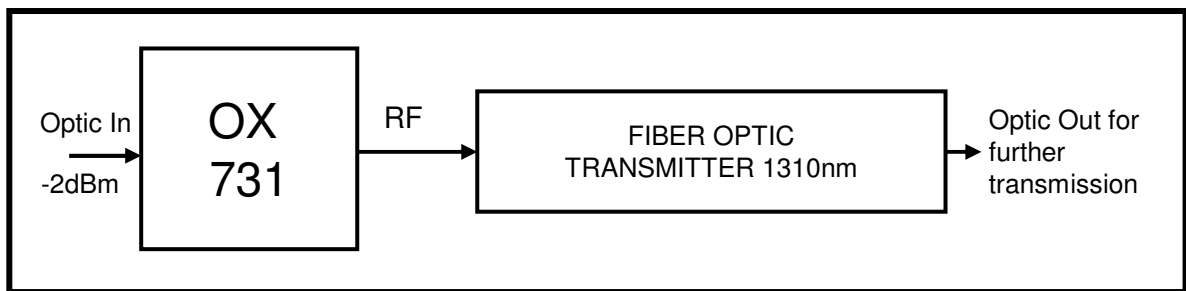


with
CONVERTER IC

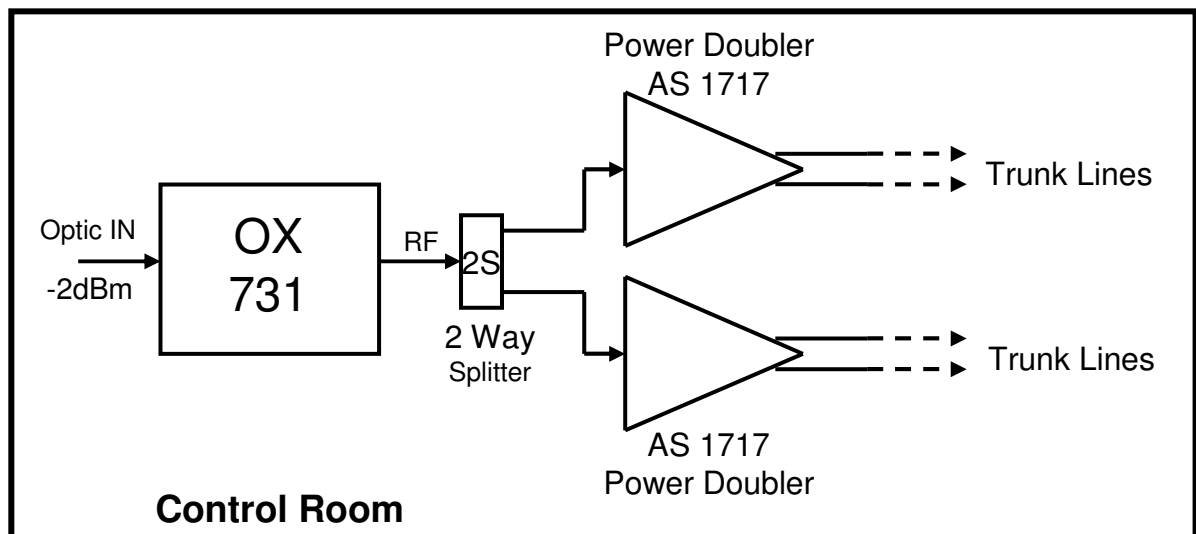
-6dBm
Sensitivity

- Very High C/N
- Best for Trunk Line
- -6dBm Sensitivity

1. Use of OX 731 for further transmission using Optic Transmitter:



2. Use of OX 731 for distribution of RF Signal in the local area:



Comparison between Other Brand Nodes & Sharp Vision Nodes



Other Brand Nodes	Sharp Vision Nodes
<p>1. High Noise – As they do not incorporate any low noise amplifier immediately next to Pin Detector.</p>	<p>1. Low Noise is achieved in the following manner: (i) 733 – MMIC used next to Pin Detector in a duly shielded casing. (ii) 732 – BOIC Circuit as explained.</p>
<p>2. No Equaliser used to achieve Linearity. This result in intermodulation of channels.</p>	<p>2. Use of Equaliser for maintaining linearity. (i) Low Freq – low gain (ii) High Freq – high gain</p>
<p>3. Poor Sensitivity With -6dB of optic input, an RF output of 98dBμV can only be achieved.</p>	<p>3. High Sensitivity Extra Amplifier IC is used. For –6 dB optic input, the RF output is 105dBμV.</p>