

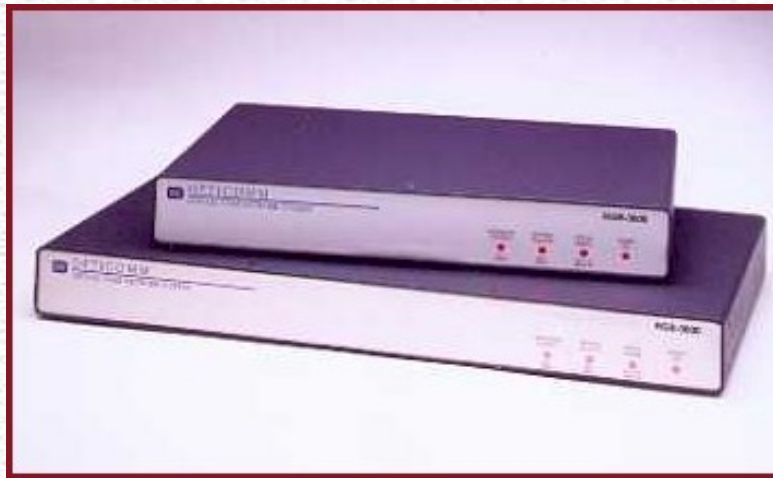
SERIES RGB-3000

- [Specifications](#) • [View Acrobat PDF](#) • [Service and Warranty](#) •

FIBER OPTIC 200 MHZ VGA/RGB VIDEO/DATA/AUDIO TRANSMISSION SYSTEM FOR ULTRA HIGH RESOLUTION REMOTE DISPLAYS

FEATURES

- Ultra-High-Resolution (1840 x 1634)
- Multimode (865 or 1310nm) Operation Over 3-6 Fibers
- 200 MHz Video Bandwidth @ -3dB
- True DC Restoration with AGC
- Flat Frequency Response
- Complies with RS-170, RS-170A, & RS-343EIA Video Standards
- VGA/SVGA Keyboard/Mouse & Audio
- No EMI or RFI & No Ground Loops
- Stand Alone or Mounting Brackets
- Ideal for CAD/CAM Workstation Extensions



GENERAL

The Opticomm Model RGB-3000 is a Amplitude Intense Modulated (AM), LED or Laser based RGB Video transmission system with a 15 Pin VGA interface port, which provides H/V Sync or Composite External Sync or Sync on Green or all three channels. It is ideal for the extension of any high resolution Video signal such as a CAD/CAM graphic workstation. Units come with a built-in Automatic Gain Control (AGC), to maintain constant Video output for each color.

The RGB-3000 comes with various options:

- VGA-RGB/Video with Sync only.
- VGA-RGB/Video with Keyboard/Mouse PS/2 6 Pin Din type Data and one RS-232 Auxiliary.

ABOUT OPTICOMM

PRODUCTS AND TECHNOLOGY

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- VGA-RGB/Video with Digital Audio Unbalanced Phoenix 5 Pin for RCA (L/R) stereo jack.
 - VGA-RGB/Video with 2 Digital Audio Mono Balanced Phoenix 5 Pin for XLR(L/R) jack.
 - VGA-RGB/Video with Keyboard/Mouse PS/2, 1 RS-232 Aux/Data and 2 Audio ports.
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SYSTEM DESIGN

Status indicators for: Power On, VGA H/V Synch present. Units transmit over 3-6 multimode fibers @ 865nm or 1310nm; or singlemode fibers @ 1310nm or 1550nm. All units come as a Stand Alone version. Units can be Rack-Mountable with optionally provided brackets for a flat surface such as a desktop in a cabinet, or mounted in a 19" Rack. RGB-3000 unit comes with internal 87-264VAC power supply that operates with a selectable power supply. The regulated switching power supply has short circuit protection, and an input operating voltage of 87-264VAC.

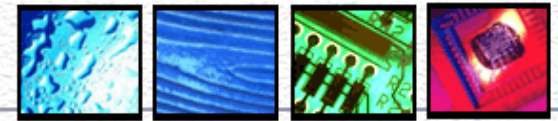
PRODUCTS

■ RGB-3003/XMT	VGA/RGB, 3 fibers
■ RGB-3003/RCV	VGA/RGB, 3 fibers
■ RGB-3004/XMT	VGA/RGB, Audio 4 fibers
■ RGB-3004/RCV	VGA/RGB, Audio 4 fibers
■ RGB-3005/XMT	VGA/RGB, K/M Aux 5f
■ RGB-3005/RCV	VGA/RGB, K/M Aux 5f
■ RGB-3006/XMT	VGA/RGB, K/M, Aux/A 6f
■ RGB-3006/RCV	VGA/RGB, K/M, Aux/A 6f

ADD SUFFIXES

L0 - 865nm LED, MM	SA - Stand Alone
L2 - 1310nm Laser, SM	RM - Mounting Brackets

[Specifications](#)



RGB-3000/XMT & RGB-3000/RCV SPECIFICATIONS

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VIDEO

Video in/out Impedance	75 Ohm
Video in/out level	1 volt peak to peak, .7 volts without sync
Video Bandwidth	10 Hz to 200 MHz @ -3dB
Gray scale linearity distortion	< 2.0 % typical
Pixel intensity distortion	< 2.0 % typical
Linearity	±1.1 % typical
Tilt	≤ 0.5 % typical
Maximum horizontal frequency	128 KHz
Maximum refresh rate	120 KHz
Signal to noise ratio	> 52 dB using RS-250C standards @ 500 meters
Connector type	VGA 15 Pin HD female

AUDIO

Audio in/out impedance	600 ohms balanced or unbalanced
Audio in/out level	-6 to +6 dBm
Frequency response	10 Hz to 20 KHz
Signal to Noise Ratio	> 60 dB
Total harmonic distortion	< 1.0 %, 1 KHz at maximum modulation
Connector type	Phoenix 5 Pin UnBalanced 1(L/R) to RCA Phoenix 5 Pin Balanced to 2 Mono (L/R) to XLR

DATA

Data Rate	DC to 19.2 Kb/s
Bit Error Rate	10 ⁻⁹
Data formats available	Keyboard/Mouse PS/2 6 Pin Din type
Connector type	Auxiliary RS-232 port DB9 Pin

OPTICAL

Wavelength	LED 865nm(L0)	LED 865nm(L0)	Laser 1310nm(L2)
Fiber type	50/125u	62.5/125u	Singlemode
Output power	-13 dBm	-10 dBm	-8 dBm
Receiver sensitivity	-20 dBm	-20 dBm	-20 dBm
Optical Loss budget	7 dB	10 dB	12 dB
Optical dynamic range	10 dB	10 dB	12 dB
Connector type	ST	ST	FC

GENERAL

Dimensions & Weight - Stand Alone	13.75" L x 8.50" W x 1.65" H 39 oz.
Material	Aluminum casing
Operating temperature range	-20°C to +70°C
Storage temperature range	-30°C to +85°C
Humidity	0 to 95% non-condensing

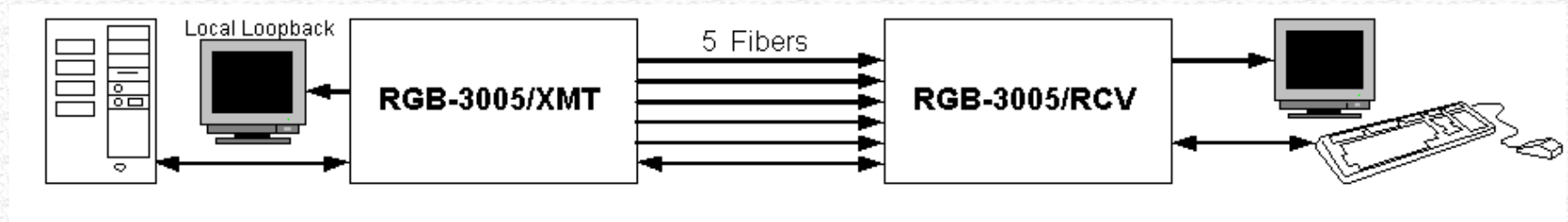
Operating voltage
Vibration
Shock

115V_{AC} or 230V_{AC} Selector switch
Up to 5 g's
Up to 12 g's

DIAGNOSTICS

Status monitoring

LED indicator



Opticomm reserves the right to change specifications without prior notice.