



FiberLink® 3112/3113 SDI Beamer Series



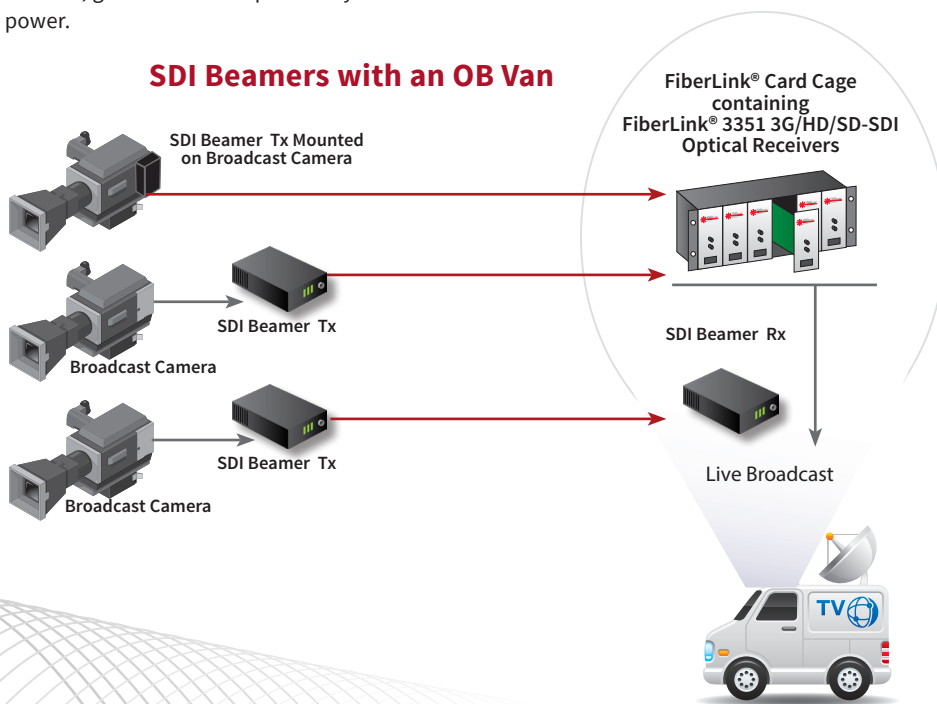
Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance using internal battery or external power

Introducing the world's first battery operated 3G/HD/SD-SDI fiber optic transmission system for in-the-field use!

The FiberLink SDI Beamer can be powered externally or via an internal 9-volt battery. Used in conjunction, the 9V battery acts as a fail-safe, glitch-free backup should you lose power.

The FiberLink SDI Beamer supports 3G, HD and SD-SDI data rates per SMPTE specifications and works with both Single Mode and Multimode fiber right out of the box!

SDI Beamers with an OB Van



FEATURES

Internal Battery/DC Powered 3G/HD/SD-SDI over Fiber

Perfect for Broadcast or corporate studios, Broadcasting in the field, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, and more!

Compatible with all Artel SDI FiberLink products

Wide operating temperature range of -10° C to +50° C

Small, lightweight design

Wide power supply options: internal 9 volt battery, external DC power, AC adapter

Locking ring power connector

Glitch-less battery backup when using external power source and internal 9 volt battery

Equalized transmitter input and reclocked receiver output

Supports 3G/HD/SD-SDI and DVB-ASI transmission

SMPTE compliant electrical and optical inputs and outputs insures interoperability

Supports both multimode and single mode fibers

Immunity to pathological patterns

Exclusive Artel optical circuit design for unmatched performance

Wide range optical link budget

Industry preferred ST optical connector with chain-attached ST dust cap

FiberLink SDI Beamer Series General Specifications

Indicator	Power/Battery
Switch	Internal Battery On/Off
Power	External 9-24 volts DC or user supplied internal 9 volt battery. Internal battery can be used for glitch-free backup to external power source or battery only operation.
Power Dissipation	Transmitter: 1.20 Watts, 4.09 BTU/hr Receiver: 1.20 Watts, 4.09 BTU/hr
Power Connector	Coaxial type with locking threads; 5.5mm O.D., 2.1mm I.D.
Operating Temperature	-10° C to +50° C
Dimensions	2.4 x 4.47 x 1.06 (in) 60.96 x 113.53 x 26.92 (mm)
Weight	4.23 oz. with batt., 2.60 oz without batt.
Approximate Internal Battery Life	5 hours with Ultralife Lithium battery 3 hours, 30 minutes with Lithium battery 1 hour, 50 minutes with Advanced Alkaline battery 1 hour, 30 minutes with Alkaline battery
MTBF	175,000 Hours
Safety Approvals	UL/cUL, GS, RCM, CCC, PSE
Power Input	90-264 Vac universal input
Connector	DC coaxial connector with locking ring
DC Output Rating	12 Vdc, 500mA, regulated
Other Features	Interchangeable AC Blades

FiberLink SDI Beamer 3112 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270) 1.485 Gbps (SMPTE 292) 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Optical Output

Connector	ST, with chain-attached dust cap
Wavelength	1310nm (nominal)
Emmitter Type	FP Laser
Output Power	-8 dBm Min (Single Mode) -3 dBm Min (Multimode 50u/62.5u)

FiberLink SDI Beamer 3113 Receiver Specifications

Fiber Optic Input

Connector	ST, with chain-attached dust cap
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-18 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -20 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-10	2.97 Gbps	10 km
	0-12	1.485 Gbps	15 km
	0-12	270 Mbps	15 km
Multimode (62.5u)	0-15	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-17	270 Mbps	1.5 km
Multimode (50u)	0-15	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-17	270 Mbps	2 km

*Distance specifications are approximate, based upon connecting a 3112 Transmitter to a 3113 Receiver, and are not guaranteed. Artel cannot estimate or guarantee operating loss budgets when the SDI Beamer Series is used with other, non-FiberLink devices. Operating loss budget must not be exceeded.



Schedule
Contract GS-03F-016CA

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All specifications subject to change without notice. ©2016

Ordering Information

Part Number	Description	Fiber Cores
3112	Transmitter	1
3113	Receiver	1
3115-pp	Kit: Includes Transmitter, Receiver, two PDPS-4's and two 9V Lithium Batteries	
PDPS-4-pp	Power Supply	
Power Supply Suffix Codes (pp) for AC Line Cord:		
NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales



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