



Fiber Optic Transmission Systems  
Optical Switches  
& Accessories

Short Form Catalog  
2017

**IRIG Time Code Systems**

<b>IRGT-1001</b> <b>IRGR-1001</b> <b>IRGP-1001</b> <b>IRGM-1004</b>	These units transmit modulated IRIG time code signals from point-to-point or in a drop and repeat mode. All IRIG time codes from 10Hz to 500 KHz (A through H) are accommodated. Signal levels are 3 volts pp, Impedance is 600 ohms and signal connectors are BNC.
<b>IRGT-7001</b> <b>IRGR-7001</b> <b>IRGP-7001</b> <b>IRGM-7001</b>	These units transmit 50 ohm DC coupled (TTL) fast rise-time IRIG DCLS time code signals from point-to-point or in a drop and repeat mode. All signals from 1 pps to 10,000 pps are accommodated. Signal rise times are typically 20 nanoseconds and signal connectors are BNC.
<b>INST-1001</b> <b>INSR-1001</b>	These units transmit sine wave signals from 10 Hz to 10 MHz. Impedance is 50 ohms and signal connectors are BNC.
<b>IRGM-2004</b> <b>IRGM-2504</b>	Modulated IRIG 1 x 4 Distribution Amplifier, 600 ohm, BNC signal connectors. Modulated IRIG 1 x 4 Distribution Amplifier, 50 ohm, BNC signal connectors.
<b>IRGM-8004</b>	DCLS Digital IRIG 1 x 4 Distribution Amplifier, BNC signal connectors.
<b>IRGC-3003</b> <b>IRGC-1004</b>	Converter: Modulated IRIG to and from DCLS (including 1pps). BNC connectors. Converter: Modulated or Digital DCLS, IRIG B to 1 pps. BNC signal connectors.

**Analog Transmission Systems**

<b>INST/INSR-1001</b>	20 Hz to 10 MHz, 3 volts pp, 50 ohms, BNC signal connectors.
<b>INST/INSR-1301</b>	20 Hz to 30 MHz, 3 volts pp, 50 ohms, BNC signal connectors.
<b>INST/INSR-2001</b>	DC to 100Hz, 0-10V or 0-20mA, BNC signal connectors.
<b>INST/INSR-3001</b>	DC to 50 KHz, 0 to $\pm 1V$ , $\pm 3V$ , $\pm 10V$ and 0 to 20mA, BNC connectors.
<b>INST/INSR-1701</b>	200 KHz to 1.5 GHz, 0.1Vpp, 50 ohms, BNC signal connectors.
<b>INST/INSR-1401</b>	70 MHz and 140 MHz IF, -30 to -7dBm, 50 ohms, BNC connectors.
<b>INSM-2304</b>	DC to 100MHz, 1 x 4 Distribution Amplifier, BNC connectors.

**Digital and Contact Closure Transmission Systems**

<b>DX-7001</b>	RS-232/422/485/TTL, 0 to 10 MB/s, Terminal block connectors.
<b>DT/DR/DX-7201</b>	DC to 50 MB/s, TTL/RS-422, BNC/Terminal block connectors.
<b>DX-7601</b>	Industrial CAN Bus (ISO-11898-3, ISO-11519 or SAE-J2411 only).
<b>DT/DR-7701</b>	MIL-STD-1553 Bus monitoring, 20 Hz to 10 MHz, BJ-77 connector.
<b>DMXT/DMXP-7001</b>	DMX-512A Signal Fiber extender. 5 pin XLR connectors.
<b>GPSX-1001</b>	GPS NMEA and 1 pps on one fiber. Terminal block/BNC connectors.
<b>CT/CR-8001</b>	Single channel Contact Closure System.
<b>CT/CR-7008</b>	8 channel Contact Closure System (one fiber).
<b>CT/CR-7108</b>	Supervised 8 channel Contact Closure System (1 fiber).
<b>CT/CR-7016</b>	16 channel Contact Closure System (1 fiber).

**In all switches the data path is completely optically and bi-directional.**

### **Optical 1 x N Switches**

<b>OS-3111</b>	Single Pole Normally Open, no power, no light through.
<b>OS-3211</b>	Dual Single Pole Normally Open, no power, no light through.
<b>OS-5111</b>	Single Pole Normally Closed, no power, light passes through.
<b>OS-5211</b>	Dual Single Pole Normally Closed, no power, light passes through.
<b>OS-3121</b>	Single Pole A/B Switch (SPDT), Common port to A or B port.
<b>OS-3221</b>	Dual Single Pole A/B Switch (DPDT), Common ports to A or B ports.
<b>OS-3131</b>	Single Pole A/B/C Switch (SP3T), Common port to A, B or C port.
<b>OS-3141</b>	Single Pole A/B/C/D Switch (SP4T), Common port to A, B, C or D port.

### **Optical Bypass Switches**

<b>OS-3122</b>	Single Bypass Switch utilized for bypassing a single port LAN local station
<b>OS-3222</b>	Dual Bypass Switch utilized for bypassing a dual port LAN local station.

### **Optical Signal Sensing Switches**

<b>OS-4111</b>	Optical Path Tamper Switch; Blocks light path on loss of optical signal.
<b>OS-4121</b>	Redundant Path Switch; Automatically switches a primary optical path to a backup optical path on loss of the primary optical signal.
<b>OS-4221</b>	Dual Redundant Path Switch; Automatically switches a primary optical path to a backup optical path on loss of the primary optical signal.
<b>OS-7121</b>	Bi-Directional Redundant Path Switch; Automatically switches a primary optical path to a backup optical path on loss of the primary optical signal.

All switches can be made with multimode or single-mode optical fiber and provided with ST, SC, FC or LC optical.

All switches can be controlled by a front panel mechanical switch or by means of a rear panel remote electrical input. The ALM-1000 integrates with all switches for remote alarm monitoring.



### Intercoms

<b>INCX-4001</b>	Fiber optic Indoor point-to-point or party line Intercom system with Push-to-talk or hands free operation.
<b>INCX-2101/2201</b>	Fiber Optic outdoor Intercom system typically used for Bucket truck applications. Hands free remote (Bucket) station, push-to-talk Master (Cab) station. Remote station battery operated allowing high voltage isolation systems to be configured.
<b>INCX-1101/1201</b>	Wired Outdoor Intercom system typically used for Bucket truck applications. Hands free remote (Bucket) station, push-to-talk Master (Cab) station. Remote station gets power from Master. Not suitable for high voltage isolation systems due to interconnecting electrically conductive cable.

### Audio Transmission Systems

<b>AT/AR-1001</b>	Audio line level (balanced or unbalanced) point-to-point transmission
<b>AX-1001</b>	Audio line level (balanced or unbalanced) bi-directional transmission
<b>ACX-1001</b>	Audio line level, bi-directional, with contact closure
<b>AT/AR-8001</b>	AES/EBU Audio Signal Extender
<b>MIDI-1001</b>	Wired MIDI Digital Audio Extender. 0 to 1000 feet (Cat 5 Interconnect)
<b>MIDI-2001</b>	Fiber optic MIDI Digital Audio Extender. 0 to 1 mile (Multimode fiber)

### Video (Analog) Transmission Systems (NTSC, PAL, SECAM)

<b>VT/VR-1001</b>	Baseband analog video, 20Hz to 10 MHz for legacy analog video
<b>VT/VR-1300</b>	Baseband analog video, 20 Hz to 30 MHz for radar video applications
<b>VAT/VAR-1001</b>	Baseband analog video and stereo audio on one fiber
<b>VDT/VDR-1001</b>	Baseband analog video and bi-directional data on one fiber
<b>VT/VR-8004</b>	8 analog video signals on one fiber

### Wiegand Transmission Systems

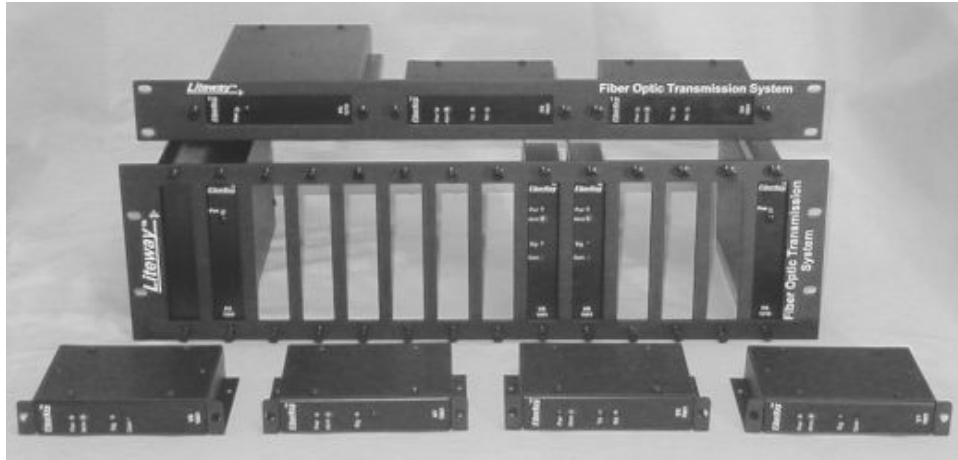
<b>WT/WR-7001</b>	Wiegand system interface.
<b>WCT/WCR-7001</b>	Wiegand and contact closure interface on a single fiber.

### Optical Repeaters / Mode converters / DA

<b>OREP-1001</b>	The Optical repeater line can repeat an optical signal for retransmission, to multiple outputs, convert single mode/multimode, convert wavelengths for integration into existing systems.
<b>OREP-1004</b>	



## System Accessories



### Power Supplies (xx = US, EU, UK, or AU)

<b>PS-1210 xx</b>	Selectable 115/230 VAC to 12 VDC @ 1 ampere linear power supply
<b>PS-1260 xx</b>	Selectable 115/230 VAC to 12 VDC @ 6 ampere linear power supply
<b>PS-1208 xx</b>	International wall plug, 230 VAC to 12 VDC @ 0.8 amperes
<b>PS-1205 US</b>	North America wall plug, 115 VAC to 12 VDC @ 0.5 amperes
<b>PS-1210 S</b>	Universal 95 to 230 VAC to 12 VDC @ 1 ampere switching power supply
<b>PS-1210 DC</b>	120 VDC to 12 VDC @ 1 ampere isolated switching DC power supply
<b>PS-4810</b>	+48 VDC to 12 VDC @ 1 ampere isolated switching DC power supply

### Standard 19 inch Rack Panels and Mounting Enclosures

<b>RMP-1000</b>	1U (1-3/4 inch) standard rack panel (accepts 3 standard units)
<b>RMP-2000</b>	2U (3-1/2 inch) standard rack panel (accepts 6 standard units)
<b>RMP-3000</b>	3U (5-1/4 inch) standard rack panel (accepts 14 standard units)
<b>DIN-1001</b>	DIN rail adapter bracket (use one for each unit to be DIN rail mounted)
<b>ENCL-1002</b>	8'x8'x4' Weatherproof NEMA Outdoor Enclosure. (for 2 standard units)

### Miscellaneous System Products

<b>ALM-1000</b>	Alarm module for all systems; For local and remote alarm monitoring
<b>ALM-2001</b>	Ethernet Signal Sensing Alarm module
<b>OC-1002</b>	1 x 2 fiber optic Splitter/Coupler (multimode or single-mode)
<b>RSW-3002</b>	DC-1 GHz analog signal sensing redundant switch
<b>RSW-2002</b>	Modulated IRIG signal sensing redundant switch
<b>RSW-4002</b>	DCLS IRIG signal sensing redundant switch

Fiber optic cables, jumpers, connector adapters and similar accessories are also available.



Fiber Optic Transmission Systems

www.Liteway.com  
USA 516-931-2800

Since 1977 the personnel of **Liteway, Inc.** have been devoted entirely and exclusively to the technology of fiber optics. The company offers a full line of fiber optic transmitters, receivers, repeaters, fiber optic switches, intercom systems and related accessories under the **LuxLink**<sup>®</sup> and **LiteLink**<sup>®</sup> brand designations. We also offer custom designed and private labeled products.

All fiber optic products are 100% factory tested, RoHS compliant to EU202/95EC, and ready to operate immediately. In most cases all that is required is to connect the appropriate fiber optic cable and they are ready to go.

All fiber optic products are manufactured in the U.S.A. and come with a 5 year product warrantee as well as a 30 day money back guarantee.

The various fiber optic product categories offered by Liteway, Inc. are as follows:

**LuxLink**<sup>®</sup> Fiber Optic Transmission Systems

**www.LuxLink.com**

Analog: DC to 1.5 GHz

Digital: 0 to 200 MB/s

C Contact Closures

MIL-1553, GPS/NMEA/1PPS

**LuxLink**<sup>®</sup> Fiber Optic Bi-directional Switches

**www.LuxLink.com**

1 x N, 2 x N, 1 x 3, 1 x 4

Signal Sensing Optic switches

Bypass switches with Manual and Remote Control

Latching or Non-Latching

**LiteLink**<sup>®</sup> Fiber Optic Industrial Products

**www.LiteLink.com**

Fiber Optic Intercom Systems

Audio Transmission Systems

Video Transmission Systems

