Liteway®

Fiber Optic Transmission Systems
Optical Switches
& Accessories

Short Form Catalog

2020

LuxLink ®   Fiber Optic Transmission Systems

IRIG Time Code Systems

IRGT-1001
IRGR-1001
IRGP-1001
IRGM-1004   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.

IRGT-7001
IRGR-7001
IRGP-7001
IRGM-7001   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.

INST-1001
INSR-1001   These units transmit sine wave signals from 10 Hz to 10 MHz. Impedance is 50 ohms and signal connectors are BNC.

IRGM-2004   Modulated IRIG 1 x 4 Distribution Amplifier, 600 ohm, BNC signal connectors.
IRGM-2504   Modulated IRIG 1 x 4 Distribution Amplifier, 50 ohm, BNC signal connectors.

IRGM-8004   DCLS Digital IRIG 1 x 4 Distribution Amplifier, BNC signal connectors.

IRGC-3003   Converter: Modulated IRIG to and from DCLS (including 1pps). BNC connectors.
IRGC-1004   Converter: Modulated or Digital DCLS, IRIG B to 1 pps. BNC signal connectors.
TTLC-1004   Converter: Digital DCLS/1PPS to 4 differential/balanced outputs.

Analog Transmission Systems

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

Digital and Contact Closure Transmission Systems

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

Data sheets and Instruction Manuals for all of the above products can be viewed or downloaded by clicking on the desired model number.

Liteway ®
Fiber Optic Transmission Systems

www.Liteway.com
USA 516-931-2800

The optical paths through all switches are fully bi-directional.

Optical 1 x N Switches

OS-3111   Single Pole Normally Open, no power, no light through.
OS-3211   Dual Single Pole Normally Open, no power, no light through.

OS-5111   Single Pole Normally Closed, no power, light passes through.
OS-5211   Dual Single Pole Normally Closed, no power, light passes through.

OS-3121   Single Pole A/B Switch (SPDT), Common port to A or B port.
OS-3221   Dual Single Pole A/B Switch (DPDT), Common ports to A or B ports.

OS-3131   Single Pole A/B/C Switch (SP3T), Common port to A, B or C port.

OS-3141   Single Pole A/B/C/D Switch (SP4T), Common port to A, B, C or D port.

Optical Bypass Switches

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

Optical Signal Sensing Switches

OS-4111   Optical Path Tamper Switch; Blocks light path on loss of optical signal.

OS-4121   Redundant Path Switch; Automatically switches a primary optical path to a backup optical path on loss of the primary optical signal.

OS-4221   Dual Redundant Path Switch; Automatically switches a primary optical path to a backup optical path on loss of the primary optical signal.

OS-7121   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.

Data sheets and Instruction Manuals for all of the above products can be viewed or downloaded by clicking on the desired model number.

Intercoms

INCX-4001	Fiber optic Indoor point-to-point or party line Intercom system with Push-to-talk or hands free operation.
INCX-2101/2201	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.
INCX-1101/1201	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

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

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

VT/VR-1001	Baseband analog video, 20Hz to 10 MHz for legacy analog video
VT/VR-1301	Baseband analog video, 20 Hz to 30 MHz for radar video applications
VAT/VAR-1001	Baseband analog video and stereo audio on one fiber
VDT/VDR-1001	Baseband analog video and bi-directional data on one fiber
VT/VR-8004	8 analog video signals on one fiber

Wiegand Transmission Systems
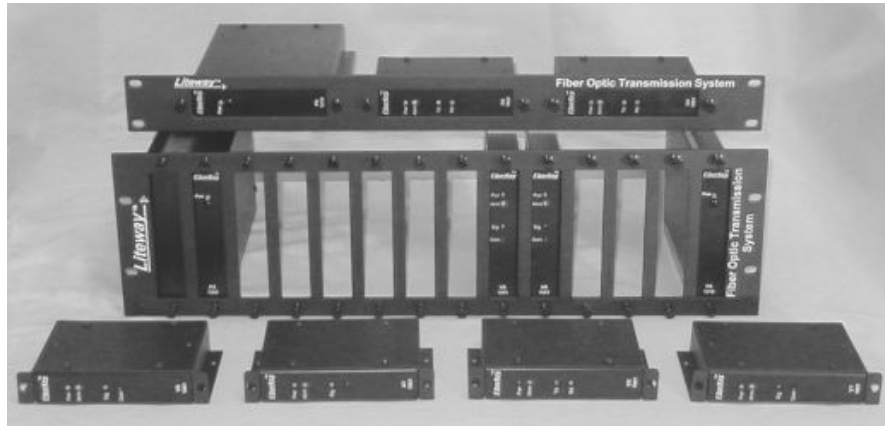
WT/WR-7001	Wiegand system interface.
WCT/WCR-7001	Wiegand and contact closure interface on a single fiber.

Data sheets and Instruction Manuals for all of the above products can be viewed or downloaded by clicking on the desired model number.

Liteway®
Fiber Optic Transmission Systems

www.Liteway.com
USA 516-931-2800

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

PS-1210 xx	Selectable 115/230 VAC to 12 VDC @ 1 ampere linear power supply
PS-1260 xx	Selectable 115/230 VAC to 12 VDC @ 6 ampere linear power supply
PS-1208 xx	International wall plug, 230 VAC to 12 VDC @ 0.8 amperes
PS-1205 US	North America wall plug, 115 VAC to 12 VDC @ 0.5 amperes
PS-1210 S	Universal 95 to 230 VAC to 12 VDC @ 1 ampere switching power supply
PS-1210 DC	300 VDC to 12 VDC @ 1 ampere isolated switching power supply
PS-4810	+48 VDC to 12 VDC @ 1 ampere isolated switching DC power supply

Standard 19 inch Rack Panels and Mounting Enclosures

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

Miscellaneous System Products

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

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

Data sheets and Instruction Manuals for all of the above products can be viewed or downloaded by clicking on the desired model number.

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**® and **LiteLink**® 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® Fiber Optic Transmission Systems   **www.LuxLink.com**
> Analog: DC to 1.5 GHz
> Digital: 0 to 200 MB/s
> Contact Closures
> MIL-1553, GPS/NMEA/1PPS

LuxLink® 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® Fiber Optic Industrial Products   **www.LiteLink.com**
> Fiber Optic Intercom Systems
> Audio Transmission Systems
> Video Transmission Systems

MADE IN
U. S. A.