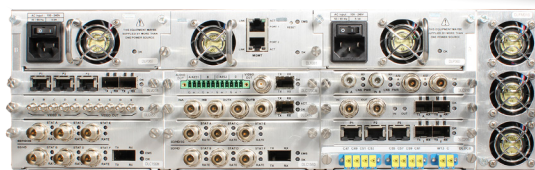# DigiLink Media Transport Platform



**DigiLink is a state-of-the-art modular platform leveraging Artel's 30 years of carrier-class video transport experience. DigiLink is specifically designed to meet the need for a low cost, rugged, and simplified design for transporting broadcast-quality video and Ethernet across IP networks, direct fiber, and optical backbones.**

The most deployed solution for the North American metro-regional video-over-fiber market, DigiLink is used by all major broadcasters and networks for their critical contribution feeds for major sporting, news, and live events. DigiLink is the industry's gold standard for simplicity of design, legendary reliability, and cost-effectiveness. A tightly integrated platform, it also offers uncompressed video-over-IP transport and integrated video and Ethernet switching.

Designed specifically to meet the unique requirements of broadcast video transport, DigiLink features multi-purpose, single-piece function modules, multiple ruggedized chassis, external optics in all standard wavelengths, and front panel accessible status LEDs and video monitor ports for each module. NEBS Level 3 Certification across the entire platform ensures it is the most rugged and dependable video transport platform ever developed.

**DL4360x Chassis, 3RU, 12 Slot Active Routing**



## ■ OVERVIEW

### Applications
- Video-Over-IP
- Video-Over-Fiber
- Video-Over-Optical Networks
- Video Routing
- Ethernet Transport
- Ethernet Switching
- L-Band Demodulator
- Optical Multiplexing
- Audio Embedding and Transport
- Circuit Verification

### Formats supported
- 2.967 Gb/s 3G-SDI (SMPTE 424M)
- 1.485 Gb/s HD-SDI (SMPTE 292M)
  - SD-SDI (SMPTE 259M-C, ITU 656)
  - SDTI (SMPTE 305M)
  - DVB-ASI
  - Other 270 Mb/s video services
- Composite analog video & audio (NTSC, PAL)
- 19.39 Mb/s ATSC (SMPTE 310M)
- 10/100/1000/10000 Ethernet

### Chassis features
- Simplified deployment and configuration
- 1, 4, and 12 slot options
- Unlimited, non-spaced installation
- Dual hot-swappable AC or DC power
- Internal video and Ethernet interconnect
- On-board SNMPv2 and HTTP element management system (EMS)

### Module features
- Single-piece, hot-swappable
- Front panel status LEDs and video monitoring
- Common set of external removable optics
- Available WDM, CWDM, and DWDM channels
- Configured with on-board switches or DigiLink Manager
- Multi-purpose, multi-format

### Certifications
- NEBS Level 3
- GR-63
- GR-1089
- CSA 60950
- EN60950
- FCC Part 15 (Class A)
- CISPR 22

# DigiLink offers a chassis for any deployment or application. Function modules are deployable in any chassis creating a unified and integrated solution for all your video transport needs.
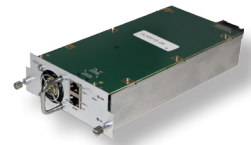
**Standard Features**

- Space efficient: 4 function modules per RU, 10.5" deep
- Stackable non-spaced deployment. Side and front-to-rear cooling.
- Low power
- Quiet operation with variable fans
- Rugged and reliable, Certified NEBS Level 3 (DL4360x, DL4000)
- Integrated SNMP or HTTP monitoring and management
- Internal video and Ethernet communication eliminates external cross connect cabling and provides for remote routing and configuration
- Dual AC, DC, or one of each hot-swappable power supplies (DL4360x, DL4000)

## DL4360x 3 RU 12 Slot with Active Routing

**Features**

- 3RU, 12 function module slots
- 60 x 60 video and Ethernet switching and routing
- Integrated HTTP and SNMP management

DLX001 Switching and Routing Module

DL4360x features an advanced design combining modular-based transport functionalities with internal routing capabilities for video and Ethernet traffic. By eliminating external cross connects while staying in native video or Ethernet format, the DL4360x streamlines routing and rerouting of video and Ethernet traffic, reducing operational expenses, and providing an ideal solution for remote sites where immediate and timely reconfiguration is required via EMS or NMS.

## DL4000 1 RU 4 Slot

**Features**

- 1RU, 4 function module slots
- Internal video and Ethernet switching and routing
- HTTP and SNMP management

At 1 RU and capable of holding up to 4 function modules, the DL4000 is ideal for smaller deployments or portable applications. Using a passive backplane design, the DL4000 is capable of internally routing video and Ethernet signals between modules.

## DL4100 Single Slot

The DL4100 is an inexpensive, compact chassis holding one single slot DigiLink function module. Ideal for deployments in remote locations.
External AC power supply.

**Sales**

T: +1 978-263-5775
sales@artel.com
customercare@artel.com
www.artel.com

## DIGILINK CHASSIS SPECIFICATIONS

| Chassis Model | DL4360x | DL4000 | DL4100 |
|---|---|---|---|
| PART # | 390-009100-00 | 390-008000-00 | 390-001000-00 |
| Number of function module slots | 12 | 4 | 1 |
| Power supplies | 1 or 2 AC, DC or 1 of each (Hot swappable) | 1 or 2 AC, DC or 1 of each (Hot swappable) | 1 AC external |
| Cooling | Active fans 3 for function modules 1 per power supply 1 for active switch module | Active fan 1 per power supply | Convection |
| Chassis dimensions (h, w, d) | 5.25" x 17.0" x 10.5" | 1.75" x 17.0" x 10.5" | .83" x 5.88" x 10.5" |
| Chassis wt. (Fully populated) | < 20 lbs | <10 lbs | <3 lbs |
| Operating temperature | 0 to 50° C | 0 to 50° C | 0 to 40° C |
| Relative humidity | | 10 to 95% (non-condensing) | |
| Ambient storage | | -40 to 80° C | |
| Module-to-module internal connection | Yes, full 60x60 non-blocking. Requires optional switch module. | Yes | No |
| Remote monitoring and management via DL-Manager | Yes | Yes | No |
| **Regulatory Conformance** | | | |
| NEBS Level 3 Certification | Yes | Yes | No |
| CSA 60950, EN60950, EN55022, FCC Part 15 (Class A), CISPR 22 | Yes | Yes | Yes |

## AC POWER SUPPLY SPECIFICATIONS

| Chassis | DL4360x | DL4000 | DL4100 |
|---|---|---|---|
| MODEL | DLP360 | DLP001A | DLPE001 |
| PART # | 390-009102-00 | 390-008002-03 | 390-001002-00 |
| Input voltage | | 90 to 254 VAC at 50 or 60 Hz | |
| Power consumption (max) | 250 Watts | 100 Watts (per chassis) | 15 Watts |
| Current (max) | 10 amps | 1.8 Amps | .25 Amps |
| BTU/hr (max) | 853 | 340 | 55 |

## DC POWER SUPPLY SPECIFICATIONS

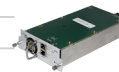| Chassis | DL4360x | DL4000 |
|---|---|---|
| MODEL | DLP361 | DLP002A |
| PART # | 390-009105-00 | 390-008005-03 |
| Input voltage | -40 to -70 VDC | -40 to -70 VDC |
| Power consumption (Max) | 250 watts | 100 watts (per chassis) |
| Current (Max) | 5 amps | 3.6 Amps |
| BTU/hr (Max) | 853 | 340 (per chassis) |

**DL4360x Fan Tray and Controller***

| MODEL | DLFM010 |
|---|---|
| PART # | 390-009101-00 |
| Power consumption | < 30 Watts |
| Cooling | Active 3 fans |

* Required for chassis cooling and management

**DL4360x Switching and Routing Module**

| Model | DLX001 |
|---|---|
| Part # | 390-009109-00 |
| Power consumption | < 18 Watts |
| Cooling | Active 1 fan |

AR206-008000-90_Q

## ■ WHY ARTEL

At Artel, we recognize the industry changes and leverage our 30 years of video transport experience to develop DigiLink, a reliable and simple-to-deploy media transport solution designed to take advantage of enhanced technologies. The result is a flexible, space efficient, low power solution with thousands of successful deployments worldwide and an unparalleled reputation for reliability. Also, DigiLink is the easiest to deploy and manage platform on the market making it an ideal solution for government, higher education, houses of worship, sports, and other applications where reliable broadcast-quality media transport is required.

## ■ DIGILINK OPTIONS                                                                                    PAGE

**Sales**

T: +1 978-263-5775
sales@artel.com
customercare@artel.com
www.artel.com