

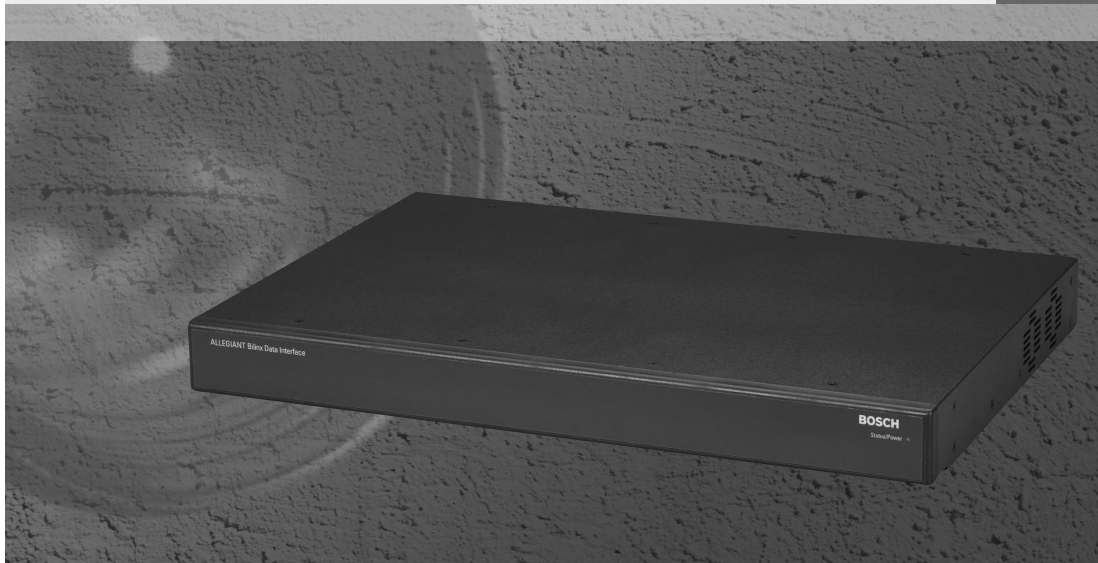
# LTC 8016/90

## Allegiant® Bilinx™

### Data Interface



#### Security Systems



- Bilinx Technology Interface for Allegiant Series Matrix Switcher/Controllers
- Up-the-coax Pan/Tilt/Zoom, Auxiliary, and Pre-position Control
- Down-the-coax Event Reporting
- Auto-sensing Setup for Simplified Installation
- Biphase Data Input Allows Other Devices to Control Bilinx PTZ Cameras
- Cascade Units to Control up to 496 Bilinx Cameras

The LTC 8016/90 Allegiant Bilinx Data Interface unit is an accessory used for communicating over-the-coax, with up to 16 Bilinx-capable AutoDome® and/or Dinion™ Series cameras. Compatible with all seven Allegiant Series matrix switcher/controllers, the LTC 8016 provides complete control of pan/tilt/zoom, auxiliaries, and pre-position functions of Bilinx enabled AutoDome Series cameras. In addition, complete programming of Dinion Series cameras and AutoDomes via their on-screen menus is supported.

Bilinx technology also supports camera-generated event reporting to the Allegiant. This allows remote alarm inputs and motion event data to be sent to the Allegiant without the need for additional wiring between the camera site and the main control location.

The LTC 8016 is designed so that other biphase code generating products, like Bosch Digital Videos Recorders, can be used with the unit for control of PTZ functions and camera menu access over the video cable. This high level of flexibility provides a low cost per channel solution whenever control and configuration of remote cameras is needed.

With Bilinx technology, installation costs are reduced because no additional data communication cabling to the camera site is required. Installation time is also reduced; once the cameras and data cable to the LTC 8016 are connected, and its group ID number is set, all other internal settings are configured automatically.

Use of the LTC 8016 also reduces camera installation time because there's no need to set AutoDome's site addresses. At initial connection of an AutoDome camera to the LTC 8016, its identification is automatically established.

The LTC 8016 is supplied in an enclosure compatible with mounting in an EIA 19in. rack, requiring only a 1-U rack height. To support large systems, up to 31 units can be cascaded, comprising up to 496 Bilinx-compatible cameras.

The LTC 8016 can also be used to transmit Bilinx communications over a number of video transmission systems. Example devices include fiber optic links and external balun devices that use CAT5 twisted pair cables for video communication.

Security you can rely on

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## 2 | LTC 8016/90 Allegiant Bilinx Data Interface

### Electrical

**Voltage Range** 108 to 264VAC, 50/60Hz

**Power at Rated Voltage** 15 Watts

### Maximum Video Signal Distances

**Coax** Up to 300m (1000ft) using standard CCTV-grade RG-59U with copper center conductor and copper braided shield; Up to 600m (2000ft) using CCTV-grade RG-11 or RG-6.

**Fiber** Up to 600m (2000ft) using LTC 4630 and LTC 4631 Series fiber optic modules.  
Note: This distance includes the length of coax cables used between the devices and the fiber optic link.

**Other** Up to 230m (750ft) using CAT5E cable that meets ANSI/TIA/EIA-568-A requirements with NV-211 or NV-231A BNC-to-twisted Balun devices (or similar passive device pair).

Note: When using twisted pair links of this type, some degradation in video quality may be experienced at distances beyond 150m (500ft).

### Front Panel Indicators

**Status / Power** LED

### Rear Panel Indicators

**System Data Link Indicator** Green LED

**Data Activity Indicator** Yellow LED

**Biphase Code Indicator** Green LED

**Video/Bilinx Signal Presence** One (1) Green LED for each of 16 channels

**Ethernet Port** Green LED Indicates Link;

Yellow LED Indicates Activity

### Rear Panel Controls

**Group ID** Three rotary switches

### Rear Panel Connectors

**Bilinx Video Inputs** 16 BNC connectors; accepts standard NTSC/PAL baseband composite video signals or video signals from Bilinx-capable cameras; 0.5 to 1.4Vp-p; 75Ω terminated; TVS protected inputs provide improved protection against transients

**Video Outputs** Male 34-pin video ribbon connector; provides 16 video outputs (unity gain using active circuitry); Mating 2m (6ft) 16-ch LTC 8808/00 cable included

**Biphase Data Interface** 6 position removable terminal block with "+", "-", and "Shield" input connections and "+", "-", and "Shield" looping output connections, with attached end-of-line termination resistor

**PC Interface** Male 9-pin sub D-connector (Reserved for future use)

**RS-232 Data Interface<sup>1</sup>** Female 9-pin sub D-connector for Allegiant RS-232 interface

**RS-485 Data Interface<sup>1</sup>** Female 9-pin sub D-connector for Allegiant RS-485 interface port connection

**RS-485 'Looping' Data Interface<sup>1</sup>** Female 9-pin sub D-connector, for data interface to cascaded LTC 8016 unit

Note<sup>1</sup>: One 2m (6ft) data interface cable is supplied, for use with either Allegiant RS-232 interface, Allegiant RS-485 interface, or cascade configuration looping connection.

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**Ethernet Interface** RJ-45 connector, supporting 10/100 BaseT (Reserved for future use)

**Power Cord** Two detachable 3-wire IEC cords with grounded plug, 1.83m (6ft); one with European Continental plug type and one with US plug type

### Environmental

#### Temperature

**Operating** 0°C to +50°C (+32°F to +122°F)

**Storage** -10°C to +70°C (14°F to +158°F)

**Humidity** 0% to 90% relative, noncondensing

### Mechanical

**Construction** Steel chassis with sheet metal cover and plastic bezel

**Finish** Charcoal case

**Dimensions** 440W x 305D x 40Hmm (17.3 x 12 x 1.7in)

**Weight** 3.8kg (8.5lb)

**Rack-mount Kit** (included) For mounting unit in an EIA 19in rack

### Optional Accessories

#### LTC 8508/01 Ribbon-to-BNC Interface Cable

Interface cable with a 34-pin ribbon cable on one end and 16 male BNC connectors on the other end. This cable is required when the LTC 8016 unit will be connected to control system devices that do not contain a 34-pin ribbon cable connector.

**LTC 8807/00 BNC Panel** Interface panel used to convert video ribbon cables from up to two LTC 8016 units into 32 standard female BNC connectors. Useful when the LTC 8016 unit will be separated from the control unit beyond the 2m distance allowed by the video ribbon cable supplied with the unit.

**LTC 4630 / LTC 4631 Fiber Optic Series** Fiber optic modules compatible with Bilinx communication. Available in surface-mount and rack-mount models. Refer to the LTC 4600 Series Data Sheet for complete information on these products.

**NV-211 or NV-213A BNC-to-Twisted Pair Adaptors** Passive (non-amplified) devices compatible with Bilinx technology, allowing transmission of real-time monochrome or color video over unshielded twisted pair (UTP) telephone wire. Refer to the NV-231A Series Data Sheet for complete information on these products.

### Product Regulatory Compliance

#### Electromagnetic Compatibility (EMC)

Complies with FCC Part 15, ICES-003 and

CE regulations

**Product Safety** Complies with CE regulations, UL, CSA, EN and IEC Standards

### Compatibility

#### Allegiant Matrix Switchers

Require Allegiant CPU firmware 8.6 or later (released May 2004)

**AutoDome cameras** All models manufactured October 2003 (version 5.11), or later

**Dinion cameras** Dinion Series manufactured March 2004, or later

**Biphase Devices** Any product generating standard Allegiant Biphase Control Code protocol

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