

# Accessory Packages for the Allegiant

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The Allegiant accessory products provide many optional features to the base Allegiant Video Switcher/Control System. Various accessory products are available, including operator keyboards, code distribution units, data converters, receiver/drivers, and various port expanders. Where applicable, all accessory products are designed to be compatible throughout the Allegiant systems.

In addition to Allegiant accessories, this data sheet also includes brief information on other products typically used with the Allegiant Series of matrix switchers.

In some cases, complete information for a product is found in a separate datasheet.

## Accessory Items

Model No.	Description		
IntuiKey Series	Keyboard	AutoDome Series	PTZ Cameras
LTC 8555 Series	Keyboard	LTC 8560 Series	Receiver/Drivers
LTC 8558/00	Keyboard Extension Cable	LTC 8561 Series	Receiver/Drivers
LTC 8557 Series	Keyboard Extension Kits	LTC 8562 Series	Receiver/Drivers
LTC 8568/00	Signal Distribution Unit	LTC 8563 Series	Receiver/Drivers
LTC 8768/00	Signal Distribution Unit	LTC 8564 Series	Receiver/Drivers
LTC 8540/00	Alarm Interface Unit	LTC 8566 Series	Receiver/Drivers
		LTC 8569 Series	Code Merger Units
		LTC 8570 Series	Code Merger Units
		LTC 8571 Series	Code Merger Units
		LTC 8572 Series	Code Merger Units
		LTC 8770 Series	Relay Units
		LTC 8712 Series	Console Port Expander Units
		LTC 8713 Series	Alarm Port Expanders
		LTC 8714 Series	Keyboard Port Expanders
		LTC 8715 Series	Keyboard Port Expanders
		LTC 8780 Series	Data Converter Units
		LTC 8782 Series	Code Translator Units
		LTC 8785 Series	Code Converter Units

LTC 8786 Series	Code Converter Units
LTC 8016/90	Bilinx Data Interface Unit
LTC 8808/00	Video Interconnect Panel/Cables
LTC 8807/00	Video Interconnect Panel
LTC 8809 Series	Ribbon Cables
LTC 8506/00	Cable, PC-to-Console Port
LTC 8508/01	Ribbon to BNC Interface Cable

### Certifications and approvals

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

### Technical specifications

#### General Specifications

##### Environmental

Note: Specifications for electronic hardware products are noted below unless otherwise specified in applicable accessory section.

Temperature	
Operating	4°C to 50°C (40°F to 122°F)
Humidity	0% to 95% relative, non-condensing
Shock	50 g, 11 ms, ½ sine
Altitude	3000 m (10,000 ft)

#### IntuiKey Keyboard

The IntuiKey KBD-Universal is a full function keyboard used for control and programming of the Allegiant Series matrix switchers. Backlit LCD screens provide multi-language display of softkey menus and status information. Integral variable speed joystick and zoom lens controls are standard for operating fixed or variable speed pan/tilt/zoom equipped cameras. In addition to the Allegiant Series, the KBD- Universal model IntuiKey can be used to simultaneously control Divar Series DVRs, and System4 Series multiplexers. The optional PC-based IntuiKey Script Application software package can be used to define softkeys that are used to activate Allegiant system Command Scripts.

The optional KBD-RACK rack-mounting kit is designed to provide vertical, horizontal, or 45 degree inclined mounting into standard EIA 48 cm (19 in.) rack. Refer to the IntuiKey Series data sheet for complete specifications.

#### LTC 8555 Series Keyboards

The LTC 8555 Series are compact, full function keyboards for use with Allegiant Series matrix switchers. LED readouts display real time system status information. Includes variable speed joystick

and zoom lens controls for operating fixed or variable speed pan/tilt/zoom equipped cameras. The keyboards are available in the following configurations:

Model Number	Top Bezel Graphics	Communication Protocol
LTC 8555/00	English	RS-485
LTC 8555/01	Icons	RS-485
LTC 8555/02	English	RS-232
LTC 8555/03	Icons	RS-232

#### Electrical

Operating Voltage	12 VAC (supplied by main Allegiant CPU bay or optional Keyboard Extension Kit)
Signal	2 wire RS-485, 9600 baud (LTC 8555/00 and LTC 8555/01 models) 3 wire RS-232, 9600 baud (LTC 8555/02 and LTC 8555/03 models)
Connectors	One (1), 6-contact connector for data/power

#### Mechanical

Construction/Finish	High impact plastic case with charcoal color
Dimensions (W x D x H)	220 x 51 x 155 mm (8.67 x 2.00 x 6.11 in.)
Weight	0.55 kg (1.22 lb)

#### LTC 8558/00 Keyboard Extension Cable

Six-conductor extension cable carries data/power for remote IntuiKey Series or LTC 8555 Series keyboards up to 30 m (100 ft) away from main Allegiant CPU bay.

#### LTC 8557 Series Keyboard Extension Kits

Interface kit used to remote IntuiKey Series or LTC 8555 Series keyboards up to 1.5 km (5000 ft) away from main CPU bay. Customer supplied 0.5 mm<sup>2</sup> (24 AWG) shielded-twisted pair (Belden 9841 or equivalent) required between main CPU bay site and keyboard site. Kit provides two junction boxes, interface cable, and appropriate keyboard power supply.

#### Electrical

Model No.	Rated Voltage <sup>1</sup>	Voltage Range	Power
LTC 8557/60	120 VAC, 50/60 Hz	108 to 132	10 W
LTC 8557/50	230 VAC, 50/60 Hz	198 to 264	15 W

1. Input voltage of included power supply.

Indicators	Junction box mounted power LED
Connectors	One (1), 4-position screw terminal block. One (1), 6-contact keyboard cable connector.

### Mechanical

Construction/ Finish	Surface mountable, flat black painted metal enclosure
Dimensions (W x D x H)	121 x 70 x 35 mm (4.75 x 2.75 x 1.375 in.)
Weight	170 g (6 oz.)

#### LTC 8568/00 Signal Distribution Unit

Main site Bi-Phase control code distribution and line driver unit for communicating to AutoDome Series cameras, receiver/drivers, switcher/ followers, and Allegiant satellite systems. The unit provides 32 separate outputs for driving up to 256 remote devices. Either “star” or “daisy chain” wiring configurations may be used. Two meter (6 ft) interface cable for data/power between unit and main Allegiant CPU bay supplied. Not applicable to the LTC 8100, LTC 8200, and the LTC 8300 Series systems.

### Electrical

Operating Voltage	12 VAC (supplied by main CPU bay)
Power	3 W
<b>Indicators</b>	
• Power	LED
• Code	LED
<b>Connectors</b>	
Input	One (1), 9-pin Sub D connector for data/power
Outputs	Sixteen, 6-contact removable screw terminal blocks for code output. Maximum transmission distance is 1.5 km (5000 ft) using 1 mm <sup>2</sup> (18 AWG) shielded-twisted pair (Belden 8760 or equivalent).

### Mechanical

Construction/ Finish	Charcoal colored metal enclosure
Dimensions (W x D x H)	445 x 318 x 89 mm (17.5 x 12.5 x 3.5 in.) Integral mounting flanges for EIA 48 cm (19 in.) rack
Weight	1.8 kg (4 lb)

#### LTC 8768/00 Signal Distribution Unit

Same features and specifications as the LTC 8568/00 except that it contains twice the number of output connectors which provide 64 separate outputs for driving up to 512 remote devices. Not applicable to the LTC 8100, LTC 8200, and the LTC 8300 Series systems.

#### LTC 8540/00 Alarm Interface Unit

Unit accepts up to 64 contact closures or logic level inputs from remote sensing devices such as door contacts, PIRs, etc. and then reports the “alarm” information to the main Allegiant CPU bay. Alarm

inputs may be configured in groups of 32 to accept either normally open or normally closed contacts. Unit also contains eight relay outputs that activate automatically upon alarm conditions. A two meter (6 ft) interface cable for data/power between unit and main CPU bay is supplied. Not applicable to the LTC 8100, LTC 8200, and the LTC 8300 Series systems.

### Electrical

Operating Voltage	12 VAC or 12 VDC (12 VAC is supplied by main CPU bay)
Power	8 W
<b>Indicators</b>	
Power	LED
Alarm	LED; audible tone
<b>Connectors</b>	
Alarm Inputs	Sixty-four (64); twenty 6-contact removable screw terminal blocks
Alarm Outputs	Eight (8) relay outputs (100 VDC, 0.5 A, 10 W); four (4), 6-contact removable screw terminal block.
Data/Power	One 9-pin Sub D connector

### Mechanical

Construction/ Finish	Charcoal colored metal enclosure
Dimensions (W x D x H)	445 x 318 x 89 mm (17.5 x 12.5 x 3.5 in.) Integral mounting flanges for EIA 48 cm (19 in.) rack
Weight	1.8 kg (4 lb)

#### AutoDome and AutoDome Easy II Series

The AutoDome® and the AutoDome Easy II Series of cameras integrates high-speed panning and tilting, 360-degree continuous rotation, pre-positions, etc. in a small, easy-to-install lightweight package. These PTZ models are available with various mounting and configuration options for use in both internal and external environments.

Refer to the AutoDome and the AutoDome Easy II Series datasheets for complete specifications.

#### LTC 8560, LTC 8561, LTC 8562, LTC 8563, LTC 8564, and LTC 8566 Series Receiver/Drivers

These series of on-site receiver/drivers are designed to receive Bi-Phase control code and convert this data into signals for controlling conventional pan/tilt, zoom lenses, and auxiliary functions. Supplied in an environmentally rated enclosure, these series of receiver/drivers are available in both basic and full-featured models. Refer to the chart below for specific model selection based on desired operating voltages and features:

Model	Features	Input Voltage	P/T Output Voltage
LTC 8560/60	Basic	120 VAC	120 VAC
LTC 8560/50	Basic	230 VAC	230 VAC
LTC 8561/60	Full	120 VAC	120 VAC
LTC 8561/50	Full	230 VAC	230 VAC
LTC 8562/60	Basic	120 VAC	24 VAC
LTC 8562/50	Basic	230 VAC	24 VAC
LTC 8563/20	Basic	24 VAC	24 VAC
LTC 8564/20	Full	24 VAC	24 VAC
LTC 8566/60	Full	120 VAC	24 VAC
LTC 8566/50	Full	230 VAC	24 VAC

Refer to the LTC 8560 Series and/or LTC 8561 Series datasheets for complete specifications.

### LTC 8569, LTC 8570, LTC 8571, LTC 8572 Series Code Merger Units

Control code merger and line driver units used to combine Allegiant Bi-Phase control code from two (up to four with LTC 8570 and LTC 8572 versions) systems for communicating to AutoDome Series cameras, receiver/drivers, switcher/followers, and Allegiant Satellite systems. The LTC 8569, LTC 8570 Series provides 32 separate outputs capable of driving up to 256 remote devices. The LTC 8571, LTC 8572 Series provides 64 separate outputs capable of driving up to 512 remote devices. Either “star” or “daisy chain” wiring configurations may be used. Two data cables for interface to Allegiant main CPU bays are supplied (four with LTC 8570 and LTC 8572).

Unit will accept signal input either from Allegiant main CPU bay, LTC 8568/00 output, LTC 8780 Bi-Phase output, or an output from another LTC 8569, LTC 8570 Series or LTC 8571, LTC 8572 Series unit. Multiple units may be cascaded to obtain additional outputs.

#### Electrical

Model No.	Rated Voltage	Voltage Range	Power
LTC 8569/60, LTC 8570/60, LTC 8571/60, LTC 8572/60	120 VAC, 50/60 Hz	108 to 132	12 W

LTC 8569/50, LTC 8570/50, LTC 8571/50, LTC 8572/50	230 VAC, 50/60 Hz	198 to 264	12 W
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#### Indicators

Power	LED
Code	LED

#### Connectors

Inputs	Two (2), 9-pin Sub D connectors (four (4) with LTC 8570 Series and LTC 8572 Series)
Outputs	Sixteen (32 on LTC 8571 and LTC 8572 Series) 6-contact removable screw terminal blocks for code output. Maximum transmission distance is 1.5 km (5000 ft.) using 1 mm <sup>2</sup> (18 AWG) shielded-twisted pair (Belden 8760 or equivalent).
AC Input	3-wire power cord with grounded plug; 1.8 m (6 ft) long

#### Mechanical

Construction/Finish	Charcoal colored metal enclosure
Dimensions (W x D x H)	445 x 318 x 89 mm (17.5 x 12.5 x 3.5 in.) Integral mounting flanges for EIA 48 cm (19 in.) rack
Weight	5.3 kg (11.7 lb)

### LTC 8770 Series Relay Units

The LTC 8770 Series are relay units that are designed to operate with devices that generate Allegiant Bi-Phase control code. These devices include the Allegiant series of video matrix switcher/controllers, System4 series of multiplexers, LTC 5136 controller series, etc. The LTC 8770 receives Bi-Phase control signals and opens or closes relays, depending upon the desired operating mode. Each LTC 8770 unit provides 24 individually isolated relays for connecting to external devices. In addition, six functional operating modes are available, including one user activated test mode.

#### Electrical

Model No.	Rated Voltage	Voltage Range	Power
LTC 8770/50	230 VAC, 50/60 Hz	198 to 264	8 W
LTC 8770/60	230 VAC, 50/60 Hz	105 to 132	8 W
Indicators	Power and data transmission activity displayed using LEDs. Device number or logical relay number indicated by a 4-position thumbwheel switch located on the rear panel.		

### Connectors

Inputs	One (1), 3-pin removable screw terminal connector, located on the rear panel; communication port where Bi-Phase commands are received
Outputs	Four (4), 12-pin removable screw terminal connectors located on the rear panel; relay contact (0.5 A at 20 VAC/DC and a maximum resistive load of 10 VA) 36 peak volts from either pin of the relay to ground
AC Input	3-wire power cord with grounded plug; 1.8 m (6 ft) long

### Mechanical

Construction/ Finish	Steel chassis with sheet metal cover and plastic bezel. Charcoal colored case.
Dimensions (W x D x H)	223 x 280 x 40 mm (8.77 x 11 x 1.59 in.)
Weight	1.9 kg (4.3 lb)
Optional Rack Mount Kit	LTC 9101/00 (Holds 1 or 2 units)

### LTC 8712 Series CONSOLE Port Expanders

The LTC 8712 Series “expands” an Allegiant system's CONSOLE port to permit up to 4 external computing devices to communicate with the system via RS-232 protocol. Any computing device that can normally communicate directly with an Allegiant via its RS-232 CONSOLE port can be used with these port expanders. The external devices can consist of PCs running the Allegiant system's Master Control Software package, the Allegiant Graphical User Interface (GUI), access control systems, Allegiant series RS-232 keyboards, or other devices utilizing the Allegiant system's Command Console Language (CCL). The LTC 8712 Series can be used with the LTC 8100, LTC 8200, LTC 8300, LTC 8500, LTC 8600, LTC 8800, or LTC 8900 Series systems containing CPU software version 6.5 or higher.

### Electrical

Model No.	Rated Voltage	Voltage Range	Power
LTC 8712/60	120 VAC, 50/60 Hz	108 to 132	10 W
LTC 8712/50	230 VAC, 50/60 Hz	198 to 264	10 W
Indicators	Power and data transmission activity displayed using LEDs		

### Connectors

Inputs	One (1), 9-pin Sub D connector; provides RS-232 interface to Allegiant bay. Two-meter (6-ft) interconnect cable to main bay supplied
Outputs	Four (4), 9-pin Sub D connectors for RS-232 interface to up to four external devices
AC Input	3-wire power cord with grounded plug; 1.8 m (6 ft) long

### Mechanical

Construction/ Finish	Steel chassis with sheet metal cover and plastic bezel. Charcoal colored case.
Dimensions (W x D x H)	223 x 280 x 40 mm (8.77 x 11 x 1.59 in.)
Weight	1.9 kg (4.3 lb)
Optional Rack Mount Kit	LTC 9101/00 (Holds 1 or 2 units)

### LTC 8713 Series Alarm Port Expander

The LTC 8713 Series interfaces to a LTC 8500, LTC 8600, LTC 8800, or LTC 8900 Series alarm port to permit additional LTC 8540/00 Alarm Interface units to be connected to the system. A single LTC 8713 series alarm port expander supports up to four LTC 8540/00 alarm interface units. This provides the capability for up to 256 alarm input points. Multiple LTC 8713 units may be combined to provide up to 1024 alarm input points using up to sixteen LTC 8540/00 units. The actual number of units that can be used in a system depends upon the model of the Allegiant system being used. System interconnect cable is included. A separate 12 VAC or DC, 8 W power supply is required for each LTC 8540/00.

### Alarm Capacities

Allegiant Model No.	Maximum No. of Alarms	Maximum No. of LTC 8713	Maximum No. of LTC 8540/00
LTC 8500	128	1	2
LTC 8600	512	3	8
LTC 8800	1024	5	16
LTC 8900	1024	5	16

### Electrical

Model No.	Rated Voltage	Voltage Range	Power
LTC 8713/60	120 VAC, 50/60 Hz	108 to 132	10 W
LTC 8713/50	230 VAC, 50/60 Hz	198 to 264	10 W
Indicators	Power and data transmission activity displayed using LEDs.		

### Connectors

Inputs	One (1), 9-pin Sub D connector; provides RS-232 interface to main Allegiant bay. Two-meter (6-ft) interconnect cable to main bay supplied.
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Outputs	Four (4), non-powered, 9-pin Sub D connectors for RS-232 interface to up to four expanded LTC 8540/00 units. Data cables supplied with LTC 8540/00 are used to connect alarm interfaces to port expander. A separate 12 VAC or DC, 8 W power supply is required for each LTC 8540/00.
AC Input	3-wire power cord with grounded plug; 1.8 m (6 ft) long

### Mechanical

Construction/Finish	Steel chassis with sheet metal cover and plastic bezel. Charcoal colored case.
Dimensions (W x D x H)	223 x 280 x 40 mm (8.77 x 11 x 1.59 in.)
Weight	1.9 kg (4.3 lb)
Optional Rack Mount Kit	LTC 9101/00 (Holds 1 or 2 units)

### LTC 8714 Series and LTC 8715 Series Keyboard Port Expanders

The LTC 8714 Series and the LTC 8715 Series are port expander accessory units used to provide additional keyboard capacity for LTC 8600, LTC 8800, or LTC 8900 Series Allegiant systems. A single LTC 8714 Series unit can be used to interface up to eight keyboards with an Allegiant system. A single LTC 8715 Series is used to interface up to four LTC 8714 Series expanders in a system. Multiple LTC 8715 Series expanders can be used along with multiple LTC 8714 Series expanders to provide up to 64 keyboards in a system. The actual number of units that can be used in a system depends upon the model of the Allegiant system.

### Allegiant System Capacities

Allegiant Model No.	Maximum No. of Keyboards	Maximum No. of LTC 8714	Maximum No. of LTC 8715
LTC 8600	16	1	0
LTC 8800	32	3	1
LTC 8900	64	7	3

The above table assumes eight system keyboards are connected directly into the Allegiant CPU bay keyboard ports. An LTC 8557 Series keyboard hookup kit is required for each expanded keyboard. LTC 8714 and LTC 8715 port expanders can only be used on LTC 8600, LTC 8800, and LTC 8900 systems containing CPU software version 6.2 or later.

### Electrical

Model No.	Rated Voltage	Voltage Range	Power
LTC 8714/60	120 VAC, 50/60 Hz	108 to 132	10 W
LTC 8715/60	120 VAC, 50/60 Hz	108 to 132	10 W
LTC 8714/50	230 VAC, 50/60 Hz	198 to 264	10 W

LTC 8715/50	230 VAC, 50/60 Hz	198 to 264	10 W
Indicators	Power and data transmission activity displayed using LEDs		

### LTC 8714 Series Connectors

Interface Data Port: One (1), 9-pin Sub D connector provides data interface to COM 2 port of main Allegiant CPU bay or to expansion port of LTC 8715 Series. Two-meter (6-ft) interconnect cable supplied. Keyboard Data Ports: Eight (8), 6-contact non-powered Allegiant series keyboard cable connectors. An LTC 8557 Series keyboard hookup kits are required for each Allegiant LTC 8555 series keyboard to be interfaced to LTC 8714 Series. For the IntuiKey Series keyboards, a separate power pack can be used.

### LTC 8715 Series Connectors

Interface Data Ports: Five (5), 9-pin, Sub D connectors provide data interface to COM 2 port of main Allegiant CPU bay and data interface for up to four LTC 8714 Series units. Two-meter (6-ft) interconnect cable for main bay interface supplied. AC Input: 3-wire power cord with grounded plug; 1.8 m (6 ft) long.

### Mechanical

Construction/Finish	Steel chassis with sheet metal cover and plastic bezel. Charcoal colored case.
Dimensions (W x D x H)	223 x 280 x 40 mm (8.77 x 11 x 1.59 in.)
Weight	1.9 kg (4.3 lb)
Optional Rack Mount Kit	LTC 9101/00 (Holds 1 or 2 units)

### LTC 8780 Series Data Converter Units

The LTC 8780 Series are accessory units that convert the Allegiant system's Bi-Phase control code into RS-232, or converts RS-232 back to Bi-Phase code. This provides the capability of transmitting the control code over conventional RS-232 transmission mediums such as phone modems, fiber optics, microwaves, etc. The unit will accept the Bi-Phase control code generated by an Allegiant main CPU bay, a LTC 8568/00 Signal Distribution unit, or an output from a LTC 8569, LTC 8570 Series or LTC 8571, LTC 8572 Series Code Merger unit. The LTC 8780 Series are also designed to perform the Satellite selector functions in an Allegiant Satellite system configuration. In addition, using its integral signal distribution capability, the LTC 8780 Series can function as a remote distribution unit providing 15 separate outputs. As a distribution unit, wiring can be in either a "star" or "daisy chain" configuration and each output is capable of driving 8 receiver/driver loads at up to 1.5 km (5000 ft) away using 1 mm<sup>2</sup> (18 AWG) shielded-twisted pair (Belden 8760 or equivalent). Refer to separate datasheet for complete specifications.

### LTC 8782 Series Code Translator Units

The LTC 8782 Series Code Translators are accessory units that convert Bi-Phase code to other manufactures' control codes, or convert other manufactures' codes to Bi-Phase. Many of the most popular protocol codes are supported, including Pelco, Vicon, American Dynamics, Sensormatic, Kalatel, Diamond Electronics, and Javelin. Fixed and variable speed codes are supported where applicable. The LTC 8782 Series Code Translators have four independent outputs. Removable screw terminal blocks are used for input and output connections. The Front panel LEDs indicate the status of power, data receive, and data transmit. The translator comes supplied in an EIA 48 cm (19 in.) rack-mount adapter that can hold up to three units. Refer to the LTC 8782 series data sheet for complete specifications.

### LTC 8785 Series Code Converters

LTC 8785 Series units are designed for use in very old Allegiant systems that have been upgraded to support 'variable speed' control code protocol. The LTC 8785 units are used to provide a source of 'fixed speed' control code when the system is generating the new 'variable speed' control code preferred by the AutoDome series of PTZ cameras. The LTC 8785 receives variable speed control code from the Allegiant via its LTC 8568/00 Signal Distribution unit and converts it into appropriate fixed speed control code. The 'fixed speed' control code outputs from the LTC 8785 Series connect to the older TC8561 Series receiver/drivers using the existing field cabling.

### Electrical

Model No.	Rated Voltage	Voltage Range	Power
LTC 8785/60	120 VAC, 50/60 Hz	108 to 132	12 W
LTC 8785/50	230 VAC, 50/60 Hz	198 to 265	12 W

### Indicators

• Power	LED
• Code	LED

### Connectors

Inputs	One (1), 9-pin Sub D connector
Outputs	Sixteen (16), 6-contact removable screw terminal blocks for code output. Maximum transmission distance is 1.5 km (5000 ft) using 1 mm <sup>2</sup> (18 AWG) shielded twisted pair (Belden 8760 or equivalent).
AC Input	3-wire power cord with grounded plug; 1.8 m (6 ft) long

### Mechanical

Construction/Finish	Charcoal colored metal enclosure
Dimensions (W x D x H)	445 x 318 x 89 mm (17.5 x 12.5 x 3.5 in.) Integral mounting flanges for EIA 22.86 cm (9 in.) rack
Weight	5.3 kg (11.7 lb)

### LTC 8786 Data Converter Series

The LTC 8786 Series of data converters are designed to convert Bosch "Receiver/Driver and AutoDome RS-232 Control Code Protocol" into Allegiant Bi-Phase control code. These units are the preferred method for transforming a single RS-232 data output from a DVR (or a similar device) into multiple control code outputs for operating AutoDome cameras. Either "star" or "daisy chain" wiring configurations can be used from each of its 16 outputs. Using daisy chain, each output is capable of driving 8 receiver/driver loads at up to 1.5 km (5000 ft.) away using 1 mm<sup>2</sup> (18 AWG) shielded-twisted pair (Belden 8760 or equivalent). Refer to the LTC 8786 series datasheet for complete specifications.

### LTC 8016/90 Bilinx™ Data Interface Unit

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 by the camera to the Allegiant without the need for additional wiring between the camera site and the main control location.

In addition, the LTC 8016 is designed so that other Bi-Phase 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.

The LTC 8016 is supplied in an enclosure compatible with mounting in an EIA 48 cm (19 in.) 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.

Refer to the LTC 8016/90 datasheet for complete specifications.

### LTC 8808/00 Video Interconnect Panel

The LTC 8808/00 Video Interconnect panel provides the LTC 8200, LTC 8300 Series, LTC 8600 Series, and LTC 8800 Series systems the ability of looping up to 32 video inputs per panel. This 'patch' panel contains 32 BNC connectors on its front panel for external video connections and two 16-contact ribbon connectors on its rear panel. Two, 2-meter (6-ft) 16-conductor video grade ribbon cables are included for interfacing the patch panel to the video looping connectors on the rear panel of the LTC 8200, LTC 8300 Series, LTC 8600 Series, and LTC 8800 Series equipment bays.

#### Mechanical

Construction/ Finish	Charcoal painted metal
Size	One standard EIA 48 cm (19 in.) rack unit high and one unit wide. Integral mounting flange design.
Weight	0.8 kg (1.8 lb)

### LTC 8807/00 Video Interconnect Panel

The LTC 8807/00 Video Interconnect Panel is identical to the LTC 8808/00 described above, except that it does not include the two video ribbon cables. This video interconnect panel is intended for use with products that are supplied with video ribbon cables, such as the LTC 8016/90 Bilinx Data Interface unit. For example, the ribbon cables from up to two LTC 8016 units can be converted into 32 standard female BNC connectors using this interface panel. This configuration is necessary when the LTC 8016 unit will be separated from the control unit beyond a 2 m (6 ft) distance.

### LTC 8809 Series Video Ribbon Cables

The LTC 8809 series are 16-channel video ribbon cables that are used to provide connections between certain devices. Specifically designed for the transport of 75 Ohm video signals, these cables are available in three different lengths:

Model Number	Length
LTC 8809/00	2 m (6 ft)
LTC 8809/01	1 m (3 ft)
LTC 8809/02	3.2 m (10.5 ft)

Each cable contains a 34-pin connector at each end that is designed to 'lock' into the corresponding connector found on the rear panels of the Allegiant LTC 8800 and LTC 8900 series matrix switchers. In addition, these cables are supplied with certain other products, including the LTC 8808/00 Video Interconnect Panel and the LTC 8016/90 Bilinx Data Interface unit.

### LTC 8506/00 Allegiant Console Cable

The LTC 8506/00 is an RS-232 grade cable with 9-pin, Sub D-connectors on each end that is used to connect an Allegiant's system's Console port to a standard PC Com port. This cable is included in the Allegiant LTC 8059 Master Control Software and the LTC 8850 Allegiant GUI packages.

Length: 3 m (10 ft), approximately.

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

The LTC 8508/01 is a video interface cable with a 34-pin ribbon cable on one end and 16 male BNC connectors on the other end. This cable can be used to loop up to 16-channels of video signals from products having the ribbon cable connector interface to other devices that utilize BNC connectors. Typical products with 34-pin ribbon cable connector interfaces include the LTC 8016/90 Bilinx Data Interface unit and the DESA<sup>XL</sup> series digital video recorder.

Length: 1 m (3 ft), approximately

#### Ordering information

##### LTC 8553/00 Keyboard

Similar to the LTC 8550/00 keyboard except contains variable speed joystick for use in Allegiant systems where variable speed pan/tilt control is desired using AutoDome pan/tilt/zoom/cameras.

Order number **LTC 8553/00**

##### LTC 8553/01 Keyboard

Similar to LTC 8550/01 keyboard except contains variable speed joystick for use in Allegiant systems where variable speed pan/tilt control is desired using AutoDome<sup>®</sup> pan/tilt/zoom/cameras.

Order number **LTC8553/01**

##### LTC 8555/00 Compact Full-function Keyboard

variable speed joystick

Order number **LTC 8555/00**

##### LTC 8555/01 Compact Full-function Keyboard

variable speed joystick, icon graphics

Order number **LTC 8555/01**

##### LTC 8555/02 Compact Full-function Keyboard

variable speed joystick, RS-232 protocol

Order number **LTC 8555/02**

##### LTC 8555/03 Compact Full-function Keyboard

variable speed joystick, RS-232 protocol, icon graphics

Order number **LTC 8555/03**

##### LTC 8540/00 Alarm Interface Unit

Alarm interface, 64 alarm inputs, 8 relay closures

Order number **LTC 8540/00**

##### LTC 8558/00 Keyboard Cable

optional, 30.5 m (100 ft)

Order number **LTC 8558/00**



**LTC 8568/00 Signal Distribution Unit**

32 separate biphase outputs  
Order number **LTC 8568/00**

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**LTC 8768/00 Signal Distribution Unit**

64 separate biphase outputs  
Order number **LTC 8768/00**

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**LTC 8569/50 Code Merger Unit**

allows 2 Biphase devices to control 32 outputs,  
230 VAC, 50 Hz  
Order number **LTC 8569/50**

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**LTC 8569/60 Code Merger Unit**

allows 2 Biphase devices to control 32 outputs,  
120 VAC, 50/60 Hz  
Order number **LTC 8569/60**

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**LTC 8570/50 Code Merger Unit**

allows 4 Biphase devices to control 32 outputs,  
230 VAC, 50 Hz  
Order number **LTC 8570/50**

---

**LTC 8570/60 Code Merger Unit**

allows 4 Biphase devices to control 32 outputs,  
120 VAC, 50/60 Hz  
Order number **LTC 8570/60**

---

**LTC 8571/50 Code Merger Unit**

allows 2 Biphase devices to control 64 outputs,  
230 VAC, 50 Hz  
Order number **LTC 8571/50**

---

**LTC 8572/50 Code Merger Unit**

allows 4 Biphase devices to control 64 outputs,  
230 VAC, 50 Hz  
Order number **LTC 8572/50**

---

**LTC 8572/60 Code Merger Unit**

allows 4 Biphase devices to control 64 outputs,  
120 VAC, 60 Hz  
Order number **LTC 8572/60**

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**LTC 8712/50 Allegiant Console Port Expander**

for LTC 8600/LTC 8800 console port expander,  
RS-232, 230 VAC, 50 Hz  
Order number **LTC 8712/50**

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**LTC 8712/60 Allegiant Console Port Expander**

for LTC 8600/LTC 8800 console port expander,  
RS-232, 115 VAC, 60 Hz  
Order number **LTC 8712/60**

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**LTC 8713/50 Alarm Port Expander**

for up to 4 LTC 8540/00 units, half rack, 230 VAC,  
50 Hz  
Order number **LTC 8713/50**

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**LTC 8713/60 Alarm Port Expander**

for up to 4 LTC 8540/00 units, half rack, 115 VAC,  
60 Hz  
Order number **LTC 8713/60**

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**LTC 8714/50 Keyboard Port Expander**

for up to 8 Allegiant keyboards, half rack 230 VAC,  
50 Hz  
Order number **LTC 8714/50**

---

**LTC 8714/60 Keyboard Port Expander**

for up to 8 Allegiant keyboards, half rack, 115 VAC,  
60 Hz  
Order number **LTC 8714/60**

---

**LTC 8715/50 Port Expander**

for multiple LTC 8714/50 units, 230 VAC, 50 Hz  
Order number **LTC 8715/50**

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**LTC 8715/60 Port Expander**

for multiple LTC 8714/60 units, half rack, 115 VAC,  
60 Hz  
Order number **LTC 8715/60**

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**LTC 8785/50 Data Converter Unit**

converts var. speed to fixed speed code, 230 VAC,  
50 Hz  
Order number **LTC 8785/50**

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**LTC 8785/60 Data Converter Unit**

converts var. speed code to fixed speed code,  
120 VAC, 60 Hz  
Order number **LTC 8785/60**

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**LTC 8808/00 Video Interconnect Panel**

Video connect panel  
Order number **LTC 8808/00**

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**LTC 8770/50 Switcher/Follower Unit**

for Allegiant system, 24 relay contacts, half rack,  
230 VAC, 50 Hz  
Order number **LTC 8770/50**

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**LTC 8770/60 Switcher/Follower Unit**

for Allegiant system, 24 relay contact, half rack,  
120 VAC, 60 Hz  
Order number **LTC 8770/60**

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**LTC 8506/00 Cable**

PC-to-console port, for Allegiant Systems  
Order number **LTC 8506/00**

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**LTC 8809/00 Ribbon Cable**

16 conductor for LTC 8200, 8300, 8600, 8800 and  
8900 Systems, 1.8 m (6 ft)  
Order number **LTC 8809/00**

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**LTC 8809/01 Ribbon Cable**

16 conductors, for LTC 8200, 8300, 8600, 8800, and  
8900 Systems, 0.9 m (3 ft)  
Order number **LTC 8809/01**

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**LTC 8809/02 Ribbon Cable**

16 conductors, for LTC 8200, 8300, 8600, 8800, and  
8900 Systems, 3 m (9.9 ft)  
Order number **LTC 8809/02**

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**LTC 8781/50 Time/Date Converter Unit**

provides output in GPS format, half rack, 230 VAC, 50 Hz

Order number **LTC 8781/50**

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**LTC 8781/60 Time/Date Converter Unit**

provides output in GPS format

Order number **LTC 8781/60**

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**LTC 8560/50 Single-channel On-site Receiver/Driver**

230 VAC pan/tilt voltage, 230 VAC power supply, no auxiliary, 50°Hz

Order number **LTC 8560/50**

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**LTC 8560/60 Single-channel On-site Receiver/Driver**

120 VAC pan/tilt voltage, 120°VAC power supply, no auxiliary, 50/60 Hz

Order number **LTC 8560/60**

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**LTC 8780/50 Data Converter Unit**

Allegiant biphas control code to RS-232, 230 VAC, 50 Hz

Order number **LTC 8780/50**

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**LTC 8780/60 Data Converter Unit**

Allegiant Biphas control code to RS-232, 115 VAC, 60 Hz

Order number **LTC 8780/60**

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**LTC 8850/00 GUI Allegiant Single User Software Package**

Complete with Allegiant and VCR server.

Order number **LTC 8850/00**

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