BOSCH
Invented for life

Accessories & Software Packages for the Allegiant

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
LTC 8555 Series	Keyboard
LTC 8558/00	Keyboard Extension Cable
LTC 8557 Series	Keyboard Extension Kits
LTC 8568/00	Signal Distribution Unit
LTC 8768/00	Signal Distribution Unit
LTC 8540/00	Alarm Interface Unit
AutoDome Series	PTZ Cameras
LTC 8560 Series	Receiver/Drivers
LTC 8561 Series	Receiver/Drivers
LTC 8562 Series	Receiver/Drivers
LTC 8563 Series	Receiver/Drivers
LTC 8564 Series	Receiver/Drivers
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 8781 Series	Time/Date 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

Windows®-based Software Packages

Model No.	Application
LTC 8059/00	Master Control Software
LTC 8850/00	Graphical User Interface
ADIM	DVR Integration Software
SFT-INTSRV	Allegiant Integration Software

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, System4 Series multiplexers, and access ADIM based DVR control screens.
The optional PC based KBD-SFTCFG software package can be used to customize the text of IntuiKey softkeys and 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	Two wire RS-485, 9600 baud (LTC 8555/00 and LTC 8555/01 models) Three 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^2 (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[1]	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
Indicators	
• Power	LED
• Code	LED
Connectors	
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^2 (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
Indicators	
Power	LED
Alarm	LED; audible tone
Connectors	
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 Series

The AutoDome Series of cameras integrates high-speed panning and tilting, 360-degree continuous rotation, pre-positions, etc. in a small, easy-to-install lightweight package. AutoDome models are available with various mounting and configuration options for use in both internal and external environments.
Refer to the AutoDome® Series datasheet 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
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^2 (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, LTC 8555/02 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.		
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^2 (18 AWG) shielded-twisted pair (Belden 8760 or equivalent). Refer to separate datasheet for complete specifications.

LTC 8781 Series Time/Date Converters

The LTC 8781 Series are accessory units that decode the Allegiant system's encoded time/date information generated on the Bi-Phase control code line and convert it into an RS-422 format using the GPS format. This time/date information can be used to interface into external time/date inserter products (such as the Kalatel KTS-53-16), which are designed to be synchronized via a GPS signal. The electrical and mechanical specifications are the same as the LTC 8780 Series units.

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 mm² (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 the single data output from a DiBos 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 mm² (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^{XL} series digital video recorder.
Length: 1 m (3 ft), approximately

LTC 8059/00 Allegiant Master Control Software

The LTC 8059/00 brings the familiarity of the personal computer to those who supervise closed circuit television systems. Running on a Microsoft® Windows based compatible computer, this software is the human interface that makes it quick and easy to configure an entire Allegiant system.
With the Master Control Software (MCS), users can set and change an Allegiant's system parameters; program camera sequences; lock cameras, monitors, remotes, and keyboards from certain users; and perform many other system control features. Users can also view system activity with real time monitoring of the system status, and if desired, log this information to a file stored on the hard drive.
The MCS is compatible with all current versions of the Allegiant Series Video Switcher/Control systems. Typically, the MCS communicates with the Allegiant system through a direct RS-232 interface, but it is also possible to install the MCS on a remote PC connected across a Windows based network.
Earlier versions of Allegiant systems may be upgraded to be compatible with the MCS by the installation of current hardware or software upgrades. Contact your Bosch Security Systems, Inc. Sales Representative or Technical Support Representative for details.

- Minimum System Requirements, PC Platform:
  - Microsoft Windows® compatible PC, Intel® Pentium® 120 MHz or greater
  - 16 MB RAM (with Windows® 95, 98 SE, or ME)
  - 32 MB RAM (with Windows NT, 2000, or XP)
  - 250 MB fixed drive space
  - CD-ROM drive
- One of the following Operating Systems:
  - Windows 98 SE
  - Windows ME
  - Windows NT (Service Pack 4)
  - Windows 2000 (Service Pack 3 or later)

  - Windows XP Professional
- Ports Required (Minimum)
  - One (1) parallel port (for software Security Dongle device) configured for bi-directional operation (examine BIOS settings if necessary; Note: USB-to-parallel port adapters are not compatible)
  - One (1) serial port for external interface communications
  - Additional serial ports required if multiple systems are being interfaced
  - SVGA display or compatible display
- Software Includes:
  - LTC 8059/00 User Manual
  - CD-ROM
  - Software security key (attaches to PC Parallel port)
  - PC-to-system interface cable (S1385)

LTC 8850 Windows Based Allegiant Software

The LTC 8850 Graphical User Interface (GUI) software is a PC based program designed for complete control and programming of the Allegiant series of matrix switchers.

With a mouse click on an icon, operators can easily take control of system hardware devices, including cameras, monitors, and alarms. Jumping from one map to another is easily accomplished using special link icons.

System Administrators can easily call up the included Allegiant LTC 8059/00 Master Control Software module for entering the Allegiant system's camera titles, sequences, alarm responses, and many other configuration features.

Communication between the GUI workstations and an Allegiant system can be made using an RS-232 link, or via a Windows based PC network.

- Minimum System Requirements PC Platform:
  - Microsoft Windows® compatible PC, Intel® Pentium® 120 MHz or greater
  - 16 MB RAM (with Windows® 95, 98 SE, or ME)
  - 32 MB RAM (with Windows NT, 2000, or XP)
  - 250 MB fixed drive space
  - CD-ROM drive
- Operating Systems
  - Windows 98 SE
  - Windows ME
  - Windows NT (Service Pack 4)
  - Windows 2000 (Service Pack 3 or later)
  - Windows XP Professional
- Ports Required (Minimum)
  - One (1) parallel port (for software Security Dongle device) configured for bi-directional operation (examine BIOS settings if necessary; Note: USB-to-parallel port adapters are not compatible)
  - One (1) Serial port for external interface communications
  - Additional serial ports required if multiple systems are being interfaced
  - SVGA display or compatible display
  - Mouse, trackball, or touch screen pointing device

Note Note: For a live video display on the PC monitor, a Windows-compatible Video Digitizer Card must be used. The FlashBus MV Lite, supplied by Integral Technologies, Inc., may be used. For availability, and your nearest distributor, contact Integral Technologies, Inc. at 317-845-9242 or www.integraltech.com.

- Software Includes:
  - LTC 8850/00 User Manual
  - CD-ROM
  - Software security key (attaches to PC Parallel port)
  - LTC 8506/00 PC-to-system interface cable

Refer to the LTC 8850 series datasheet for complete specifications.

ADIM DVR Interface Software

ADIM is a powerful security and surveillance solution that combines the robust features of the Bosch Allegiant matrix switcher with the speed and quality of digital video recording. This tightly integrated solution uses the IntuiKey keyboard to control all cameras, monitors and digital video recorders (see back for compatibility). Reviewing an event has never been easier. The push of a single button transforms the IntuiKey into a DVR controller, allowing instant playback of video from the current camera, for display on the CCTV monitor. Using the joystick, one can easily fast forward or fast reverse to review the recording. Furthermore, Bosch DVRs can playback and record simultaneously, thus ensuring uninterrupted recording. ADIM is a rugged, reliable, and scalable solution, providing a true migration path for digital recording. Expanding your system is as easy as replacing a VCR. The ADIM solution uses stand-alone digital video recorders and incorporates Bosch disk arrays. ADIM is not restricted by network bandwidth, or subject to single point catastrophic failures. ADIM continuously monitors all DVRs for proper recording and archiving, and status can be viewed or printed. In the event of a DVR or Disk Array failure, ADIM will display a message on the CCTV monitors. For added security, ADIM provides automatic switchover to backup digital video recorders and DVAS RAID 5 protected disk arrays with hot swappable drives. In addition, ADIM logs events and synchronizes the Allegiant and all Digital video recorder clocks.

Refer to the ADIM datasheet for complete specifications.

SFT-INTSRV Allegiant Integration Software

The SFT-INTSRV software CD contains three distinct software packages that can be used integrate external devices with an Allegiant system matrix switcher. Please refer to the following sections for details:

Integration Server

The Integration Server is a versatile software package used to integrate multiple systems that are not ordinarily compatible with each other. These systems can include Video Switchers, Point of Sale systems, Fire/Burglar alarms, Access Control, or HVAC systems.

Devices can be interfaced using any of 3 different methods, including a serial RS-232 connection, a digital I/O card, or directly to an Allegiant Switcher via the LTC 8059 Master Control Software program.

The Integration Server software is programmed to recognize events as they occur in real time from one or more systems, based upon one of the three integration methods mentioned above. It then reacts to those events by sending commands to another system or systems.

- Minimum System Requirements PC Platform:
  - Microsoft Windows® compatible PC, Intel® Pentium® 120 MHz or greater
  - 8 MB RAM (with Windows® 98 SE, or ME)
  - 16 MB RAM (with Windows 2000, or XP)
  - 250 MB fixed drive space
  - CD-ROM drive
- Operating Systems
  - Windows 98 SE
  - Windows ME
  - Windows 2000 (Service Pack 3 or later)
  - Windows XP Professional
- Ports Required (Minimum)
  - One (1) USB port (or USB hub port) for USB Security Dongle
  - One (1) Serial port for external interface communications
  - Additional serial ports required if multiple systems are being interfaced–up to 16 supported
  - SVGA display or compatible display
  - ISA slot if software will be used with National Instruments™ # PC-DIO-24 Data I/O card
- Software Includes:
  - LTC 8050/00 User Manual
  - CD-ROM
  - Software security key (attaches to PC USB port)
  - LTC 8506/00 PC-to-system interface cable

Virtual Allegiant Satellite Application Software

VASA (Virtual Allegiant Satellite Application) is Bosch's strategic product that allows existing Allegiant customers to transition gradually to pure IP technologies rather than a total and instantaneous replacement.

VASA acts as the integration bridge between an existing Allegiant and the new digital based CCTV system (the 'satellite') that uses digital video encoders and decoders. With VASA, the new IP technology is totally transparent to the existing Allegiant users who continue to use their IntuiKey CCTV keyboards for video switching and PTZ control on classic analog monitors.

VASA supports the Allegiant LTC 8100 through the LTC 8900 Series matrix switchers. In addition to PTZ control, VASA provides auxiliary and preposition control of the IP based cameras.

VASA improves the ROI on existing capital assets, removes the need for training and reduces the risk for adopting new technology by incrementally adding to the system. The integration is seamless and the transition is designed to be imperceptible.

- Recommended PC Platform:
  - Microsoft Windows® compatible PC, Intel® Pentium® 2.8 GHz or greater
  - 512 MB RAM (with Windows 2000, or XP)
  - 50 MB Fixed Drive space
  - CD-ROM Drive
- Operating Systems
  - Windows 2000 (Service Pack 3 or later)
  - Windows XP Professional
- Ports Required (Minimum)
  - 10/100BaseT Ethernet interface
  - One (1) USB port (or USB hub port) for USB Security Dongle
  - One (1) Serial port for external interface communications
  - Additional serial ports required if multiple interfaces are used
  - SVGA display or compatible display

To ensure optimal performance, a dedicated PC is recommended to run this application.

Refer to the VASA datasheet for complete specifications.

Allegiant Satellite SDK

The Allegiant Satellite Software Development Kit (SDK) is a fully supported set of libraries, documentation, and samples targeted at PC-based application software that is used to control third-party CCTV matrix systems or manage IP-based digital video networks.

Since the SDK can be used to create customized solutions for unique, specific problems, customers looking to integrate an Allegiant matrix system with products offered by other manufacturers is readily accomplished.

For the thousands of existing Allegiant customers, it also provides a bridge to integrate or expand their systems with IP-based products gradually rather than a total and instantaneous replacement.

When operating in an Allegiant satellite system configuration, an Allegiant master generates switching

and PTZ data that is typically used to control a remote Allegiant satellite matrix. Using the SDK, the video switching commands and PTZ data from the master system are converted into an ActiveX interface allowing developers to easily translate this information into formats used to control other original equipment manufacturer's (OEM) systems. The SDK also supports an ability to translate repetitive type Allegiant PTZ commands to their indefinite equivalents, resulting in reduced interface traffic and lower bandwidth demands when controlling IP-based networks.

The level of integration available with the SDK results in a robust interface that provides transparent operation to the existing Allegiant operators. Operators continue to use their existing CCTV keyboards for selecting video and control of PTZ devices on the Allegiant monitors. This type of solution improves the return of investment on existing capital assets, removes the need for training, and reduces the risk for adopting new technology by incrementally adding to the system.

The SDK is compatible with all models of the Allegiant Series switchers. In addition to video switching commands and PTZ control, auxiliaries and prepositions are also supported.

The SDK is supplied with five (5) sample applications. Three (3) samples use C++ to demonstrate incorporating the SDK in a Console, ATL, and MFC application. In addition, samples using Visual Basic®, and Microsoft's®.NET Framework are included.

- Recommended PC Platform:
  - Microsoft Windows® compatible PC, Intel® Pentium® 2.8 GHz or greater
  - 512 MB RAM
  - 50 MB fixed drive space
  - CD-ROM drive
- Operating Systems
  - Windows 2000 (Service Pack 3 or later)
  - Windows XP Professional
- Ports Required (Minimum)
  - One (1) Serial port for external interface communications
  - Additional serial ports required if multiple systems are being interfaced
  - SVGA display or compatible display

Refer to the Allegiant Satellite SDK datasheet for complete specifications.

Ordering Information

LTC 8555/00 Compact Full Function Keyboard variable speed joystick	896085550001
LTC 8555/01 Compact Full Function Keyboard variable speed joystick, icon graphics	896085550101
LTC 8555/02 Compact Full Functions Keyboard variable speed joystick, RS-232 protocol	896085550201

Ordering Information

LTC 8555/03 Compact Full Function Keyboard variable speed joystick, RS-232 protocol, icon graphics	896085550301
LTC 8540/00 Alarm Interface Unit Alarm interface, 64 alarm inputs, 8 relay closures	896085400001
LTC 8558/00 Keyboard Cable optional, 30.5 m (100 feet)	896085580001
LTC 8568/00 Signal Distribution Unit 32 separate biphase outputs	896085680001
LTC 8768/00 Signal Distribution Unit 64 separate biphase outputs	896087680001
LTC 8569/50 Code Merger Unit allows 2 Biphase devices to control 32 outputs, 230 VAC, 50 Hz	896085695001
LTC 8569/60 Code Merger Unit allows 2 Biphase devices to control 32 outputs, 120 VAC, 50/60 Hz	896085696001
LTC 8570/50 Code Merger Unit allows 4 Biphase devices to control 32 outputs, 230 VAC, 50 Hz	896085705001
LTC 8570/60 Code Merger Unit allows 4 Biphase devices to control 32 outputs, 120 VAC, 50/60 Hz	896085706001
LTC 8571/50 Code Merger Unit allows 2 Biphase devices to control 64 outputs, 230 VAC, 50 Hz	896085715001
LTC 8572/50 Code Merger Unit allows 4 Biphase devices to control 64 outputs, 230 VAC, 50 Hz	896085725001
LTC 8572/60 Code Merger Unit allows 4 Biphase devices to control 64 outputs, 120 VAC, 60 Hz	896085726001
LTC 8712/50 Allegiant Console Port Expander for LTC 8600/LTC 8800 console port expander, RS-232, 230°VAC, 50 Hz	896087125001
LTC 8712/60 Allegiant Console Port Expander for LTC 8600/LTC 8800 console port expander, RS-232, 115°VAC, 60 Hz	896087126001
LTC 8713/50 Alarm Port Expander for up to 4 LTC 8540/00 units, half rack, 230 VAC, 50 Hz	896087135001
LTC 8713/60 Alarm Port Expander for up to 4 LTC 8540/00 units, half rack, 115 VAC, 60 Hz	896087136001
LTC 8714/50 Keyboard Port Expander for up to 8 Allegiant keyboards, half rack 230 VAC, 50 Hz	896087145001
LTC 8714/60 Keyboard Port Expander for up to 8 Allegiant keyboards, half rack, 115° VAC, 60°Hz	896087146001
LTC 8715/50 Port Expander for multiple LTC 8714/50 units, 230 VAC, 50 Hz	896087155001
LTC 8715/60 Port Expander for multiple LTC 8714/60 units, half rack, 115 VAC, 60 Hz	896087156001

Ordering Information

LTC 8785/50 Data Converter Unit converts var. speed to fixed speed code, 230 VAC, 50 Hz	896087855001
LTC 8785/60 Data Converter Unit converts var. speed code to fixed speed code, 120 VAC, 60 Hz	896087856001
LTC 8808/00 Video Interconnect Panel Video connect panel	896088080001
LTC 8770/50 Switcher/Follower Unit for Allegiant system, 24 Relay contact, half rack, 230 VAC, 50 Hz	896087705001
LTC 8770/60 Switcher/Follower Unit for Allegiant system, 24 Relay contact, half rack, 120 VAC, 60 Hz	896087706001
LTC 8059/00 Allegiant Software for Windows Allegiant systems programming software for Windows 95 and NT	896080590001
LTC 8506/00 Cable PC-to-Console port, for Allegiant Systems	896085060001
LTC 8809/00 Ribbon Cable 16 conductor for LTC 8200, 8300, 8600, 8800, 8900 Systems, 1,8 m (6 ft)	896088090001
LTC 8809/01 Ribbon Cable 16 conductor, for LTC 8200, 8300, 8600, 8800, 8900 Systems, 0.9 m (3°ft)	896088090101
LTC 8809/02 Ribbon Cable 16 conductor, for LTC 8200, 8300, 8600, 8800, 8900 Systems, 3°m (9.9°ft)	896088090201
LTC 8781/50 Time/Date Converter Unit provides output in GPS format, half rack, 230 VAC, 50 Hz	896087815001
LTC 8781/60 Time/Date Converter Unit provides output in GPS format	896087816001
LTC 8560/50 Single Channel On-site Receiver/Driver 230 VAC pan/tilt voltage, 230 VAC power supply, no auxiliary, 50°Hz	896085605001
LTC 8560/60 Single Channel On-site Receiver/Driver 120 VAC pan/tilt voltage, 120°VAC power supply, no auxiliary, 50/60 Hz	896085605001
LTC 8780/50 Data Converter Unit Allegiant biphase control code to RS-232, 230 VAC, 50 Hz	896087805001
LTC 8780/60 Data Converter Unit Allegiant biphase control code to RS-232, 115 V, 60 Hz	896087806001
LTC 8850/00 GUI Allegiant Single User Software Package complete with Allegiant and VCR server	896088500001

Americas:
Bosch Security Systems
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 585 223 4060
Fax: +1 800 289 0096
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 27 83955
Fax: +31 40 27 86668
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

Represented by

F2414677387 | Cur: en-US, V2, 24 Jan 2006 | DocNo. F01U008427_01