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Allegiant® Matrix Switcher Systems
Selection Guide

Allegiant® Matrix Switcher Systems

Bosch Security Systems' Allegiant Matrix Switchers are designed to meet the specific needs of your security application. Featuring full matrix switching capabilities and state-of-the-art technology, these highly reliable products have a proven field history providing enhanced performance and unique system features. Simple to use, yet feature rich, these switchers are easily customized to meet even the most demanding requirements. The Allegiant series was not only designed with the operator in mind, it is also installer friendly. Utilizing high density switching electronics means less rack space usage, less external connections to make, and less time required to complete the installation. Convenience and simplicity is the name of the game.

Our three year product guarantee, and our customer service provides you with more options, better quality, and more support for your 21st century security needs – only from Bosch.

Features of the Allegiant Series

Sophisticated technology provides a full set of system features:

- Full Crosspoint matrix provides switching of any input to any or all outputs.
- Up to 60 sequences can be programmed to run independently in either a forward or reverse direction. SalvoSwitching mode allows any number of system monitors to be programmed to switch as a synchronized group.
- Computer interface ports allow you to use an external PC with our GUI software to make system operation and programming intuitive.
- Operate a group of remote Allegiant Satellite sites from a central Master location.
- Flexible alarm response modes.
- Control, configure and update over the video cable with Bilinx Bi-directional Communication Technology
- Compatible with many popular third party Access Control platforms.
- High density, installer friendly design means less rack space usage and quicker installs.
- 48-character on-screen display for time/date, camera number, camera title, and status/monitor title.
- Powerful system macro functions for implementing customized user defined scripts.
- Hybrid analog and digital integrated system configurations possible with Bosch IP devices.
- Product meets applicable industry immunity and safety standards.
- Intuitive system operation and control realized through user-friendly keyboards and/or the Allegiant GUI PC-based software package.
- 2-digit site and 4-digit camera identification mode.

Summary of Allegiant Specifications

Specification	LTC 8100	LTC 8200	LTC 8300	LTC 8500	LTC 8600	LTC 8800	LTC 8900
Video Inputs — Standard	8	16	32	64	128	256	4096
Video Inputs — Looping	8	16	32	N/A	128	256	4096
Video Inputs — Satellite	264	272	288	320	1152	2304	4608
Video Outputs	2	5	6	8	16	64	512
Max Alarm Inputs — Contacts	8	16	32	64	512	1024	1024
Max Alarm Inputs — Software	256	256	256	128	512	1024	2048
Alarm Unit Relay Outputs	2	5	6	8	64	128	128
Integral Biphase Outputs	8	12	16	N/A	N/A	N/A	N/A
Max Keyboards	2	4	4	8	16	32	120
Integral RS-232 Ports	1	1	2	3	3	3	1-2
Expanded RS-232 Ports	4	4	8	9	9	9	4-8
Max PTZ — Standard	8	16	32	64	128	256	4096
Max PTZ — Satellite	264	272	288	320	1152	2304	4608
Some items require the use of optional accessories							

Typical Allegiant Switcher System Configuration

LTC 8100 Series / LTC 8200 Series

The power of the Allegiant in a small, pre-configured package.

- Compact, single bay construction offers two models sizes for camera input and monitor output sizes: 8 x 2 and 16 x 5.
- Built-in alarm and remote control signal distribution functions.
- Full control and programming via 2 to 4 keyboards.
- RS-232 Serial port for external PC interface support.
- Integral 1-U high rack enclosure.

Ordering Information:
Ordering main system components involves only a single part number. Select the appropriate model based on desired camera capacity, monitor capacity, and AC line voltage requirements as listed below.

Switcher Model	Capacity (Cameras x Monitors)	AC Line Voltage
LTC 8100/90	8 x 2	120 - 230VAC, 50/60 Hz
LTC 8200/90	16 x 5	120 - 230VAC, 50/60 Hz

Optional accessories:
Looping video inputs are an integral part of the design of the LTC 8100 series rear panel. If looping video inputs will be required with an LTC 8200 series system, include one LTC 8808/00 Video Interconnect panel.

Installation basics:
Install unit in rack, then connect camera and monitor coax cables to BNC connectors found on rear of unit. Connect one or more local/remote keyboards for programming and control. If applicable, connect external PC, alarm contacts, and camera control cables to appropriate data connections on rear of unit.

System programming can then be accomplished using either a system keyboard or via one of the optional external Bosch PC based software packages (see accessory section).

LTC 8300 Series

The power of the Allegiant in a medium sized, pre-configured package.

- Single bay construction offers 32 camera input by 6 monitor output capacity.
- Built-in alarm and remote control signal distribution functions.
- Full control and programming by up to 4 keyboards.
- RS-232 Serial ports for external PC interface and event logging printer.
- Integral 2-U high rack enclosure.

Ordering Information:
Ordering main system components involves only a single part number. Select the appropriate model based on AC line voltage requirements as listed below.

Switcher Model	AC Line Voltage
LTC 8300/90	120 - 230VAC, 50/60 Hz

Optional accessories:
If looping video inputs will be required, include one LTC 8808/00 Video Interconnect panel.

Installation basics:
Install unit in rack, then connect camera and monitor coax cables to BNC connectors on rear of unit. Connect one or more keyboards for programming and control. If applicable, connect external PC, alarm contacts, and camera control cables to appropriate data connections on rear of unit.

System programming can then be accomplished using either a system keyboard or via one of the optional external Bosch PC based software packages (see accessory section).

Quality control at the Bosch manufacturing facility in Lancaster, PA

LTC 8500 Series

The small to medium sized, modular based Allegiant system.

- Modular construction using individual Video Input Modules and Video Output Modules offers the convenience of variable system sizes. The LTC 8500 system offers increments of 8 camera inputs and 2 monitor outputs up to a maximum system capacity of 64 cameras by 8 monitors.
- Optional external alarm and remote control signal distribution accessory devices available.
- Full control and programming by up to 8 keyboards.
- RS-232 Serial port for external PC interface.
- RS-232 Printer port for external logging printer.
- Integral 4-U high rack enclosure.

Ordering Information:
Ordering main system components involves only 3 part numbers. First, select the appropriate main CPU bay model based on AC line voltage requirements as listed below.

Switcher Model	AC Line Voltage
LTC 8501/60	120VAC, 60 Hz
LTC 8501/50	230VAC, 50Hz

Next select a quantity of LTC 8521/00 Video Input Modules (VIMs) and LTC 8532/00 Video Output Modules (VOMs) that will be required to satisfy your system capacity according to the charts below:

LTC 8521 VIM and LTC 8532 VOM Quantities

LTC 8521/00 Input Modules		LTC 8532/00 Output Modules	
Camera Quantity	VIM Module Quantity	Montor Quantity	VOM Module Quantity
1 to 8	1	1 to 2	1
9 to 16	2	3 to 4	2
17 to 24	3	5 to 6	3
25 to 32	4	7 to 8	4
33 to 40	5		
41 to 48	6		
49 to 56	7		
57 to 64	8		

Optional accessories:
If external contacts will be utilized to activate alarm video switching, include one LTC 8540/00 Alarm Interface Unit for up to 64 contact inputs.

If the system will include controllable PTZ equipped cameras, add one LTC 8568/00 Signal Distribution Unit for up to 32 separate control code outputs or one LTC 8768/00 Signal Distribution Unit if up to 64 separate control code outputs will be required.

Installation basics:
Install main bay in rack, insert the VIMs and VOMs into the bay, then connect camera and monitor coax cables to BNC connectors on rear of unit. Connect one or more local/remote keyboards for programming and control. If applicable, connect external PC, external Alarm Interface unit for alarms, and external Signal Distribution unit for camera control functions to appropriate data connections on rear of unit.

System programming can then be accomplished using either a system keyboard or via one of the optional external Bosch PC based software packages (see accessory section).

LTC 8600 Series

For medium to large sized, modular based Allegiant systems.

- Modular construction using individual Video Input Modules and Video Output Modules offers the convenience of variable system sizes. The LTC 8600 system offers increments of 16 camera inputs and 4 monitor outputs up to a maximum system capacity of 128 cameras by 16 monitors.
- Optional external alarm and remote control signal distribution accessory devices available.
- Full control and programming by up to 16 keyboards.
- RS-232 Serial port for external PC interface.
- RS-232 Printer port for external logging printer.
- Integral 6-U high rack enclosure.
- 2-digit site and 4-digit camera identification mode.

Ordering Information:
Ordering main system components involves only 3 part numbers. First, select the appropriate main CPU bay model based on AC line voltage requirements as listed below.

Main CPU Bay	AC Line Voltage
LTC 8601/60	120VAC, 60 Hz
LTC 8601/50	230VAC, 50Hz

Next select a quantity of LTC 8621/00 Video Input Modules (VIMs) and LTC 8834/00 Video Output Modules (VOMs) that will be required to satisfy your system capacity requirements according to the charts below:

LTC 8621 VIM and LTC 8834 VOM Quantities

LTC 8621/00 Input Modules		LTC 8834/00 Output Modules	
Camera Quantity	VIM Module Quantity	Montor Quantity	VOM Module Quantity
1 to 16	1	1 to 4	1
17 to 32	2	5 to 8	2
33 to 48	3	9 to 12	3
49 to 64	4	13 to 16	4
65 to 80	5		
81 to 96	6		
97 to 112	7		
113 to 128	8		

Optional accessories:
If looping video inputs will be required, include one LTC 8808/00 Video interconnect panel for each group of 32 cameras.

If external contacts will be utilized to activate alarm video switching, LTC 8540/00 Alarm Interface Units and, if necessary, LTC 8713/x0 Alarm Port Expander Units can be added to the system. Follow the table below to determine the appropriate quantities required.

Alarm Interface and Alarm Expander Quantities

Alarm Inputs	LTC 8540/00 Alarm Unit Quantity	LTC 8713/x0 Expander Quantity
1 to 64	1	0
65 to 128	2	1
129 to 192	3	1
193 to 256	4	1
257 to 320	5	3
321 to 384	6	3
385 to 448	7	3
449 to 512	8	3

An external power supply will be required for each Alarm Interface Unit when quantities are greater than one. The TC120PS power supply is used for 120VAC line sources, and the TC220PS is used for 230VAC line sources.

If the system will include controllable PTZ equipped cameras, add one LTC 8568/00 Signal Distribution Unit for up to 32 separate control code outputs or one LTC 8768/00 Signal Distribution Unit for up to 64 separate control code outputs. If required, LTC 8569/x0 or LTC 8571/x0 series Code Merger Units models are available which provide an additional 32 or 64 outputs respectively when cascaded to the Signal Distribution unit.

If the system will utilize 9 to 16 keyboards, one LTC 8714/x0 Keyboard Port Expander will be required. For each expanded keyboard, a LTC 8557/x0 Remote Hookup kit is required.

Installation basics:
Install main bay in rack, insert the VIMs and VOMs into the bay, then connect camera and monitor coax cables to BNC connectors on rear of unit. Connect one or more keyboards for programming and control. If applicable, connect external PC, external Alarm Interface unit for alarms, and external Signal Distribution unit for camera control functions to appropriate data connections on rear of unit.

System programming can then be accomplished using either a system keyboard or via one of the optional external Bosch PC based software packages (see accessory section).

LTC 8800 Series

For large size, modular based Allegiant systems.

- Modular construction using individual Video Input Modules and Video Output Modules offers the convenience of variable system sizes. A single bay LTC 8800 system offers increments of 32 camera inputs and 4 monitor outputs up to a maximum system capacity of 256 cameras by 32 monitors. By adding the LTC 8802 series Monitor Expansion Bay, the system capacity can be expanded to support a maximum of 64 monitors.
- Optional external alarm and remote control signal distribution accessory devices available.
- Full control and programming by up to 32 keyboards.
- RS-232 Serial port for external PC interface.
- RS-232 Printer port for external logging printer.
- Integral 6-U high rack enclosure.
- 2-digit site and 4-digit camera identification mode.

Ordering Information:
Ordering main system components involves 3 to 5 part numbers. First, select the appropriate main CPU bay model based on AC line voltage requirements as listed below.

Main CPU Bay	AC Line Voltage
LTC 8801/60	120VAC, 60 Hz
LTC 8801/50	230VAC, 50Hz

If more than 32 system monitors will be required (up to 64 maximum), select the appropriate Monitor Expansion bay model based on AC line voltage requirements as listed below:

Monitor Expansion Bay	AC Line Voltage
LTC 8802/60	120VAC, 60 Hz
LTC 8802/50	230VAC, 50Hz

Next select a quantity of LTC 8821/00 Video Input Modules (VIMs) that will be required to satisfy your system camera capacity requirements according to the chart below. Note that the chart lists doubled quantities for system sizes containing more than 32 monitors because the LTC 8802 Monitor Expansion bay will require its own set of VIM modules.

LTC 8821/00 VIM Module Quantity

Camera Quantity	Quantity with less than 33 monitors	Quantity with more than 32 monitors
1 to 32	1	2
33 to 64	2	4
65 to 96	3	6
97 to 128	4	8
129 to 160	5	10
161 to 192	6	12
193 to 224	7	14
225 to 256	8	16

Now select a quantity of LTC 8834/00 Video Output Modules (VOMs) that will be required to satisfy your system monitor capacity requirement according to the chart below:

LTC 8834/00 VOM Module Quantity

LTC 8621/00 Input Modules		LTC 8834/00 Output Modules	
Monitor Quantity	VOM Module Quantity	Montor* Quantity	VOM Module Quantity
1 to 4	1	33 to 36	9
5 to 8	2	37 to 40	10
9 to 12	3	41 to 44	11
13 to 16	4	45 to 48	12
17 to 20	5	48 to 52	13
24	6	53 to 56	14
25 to 28	7	57 to 60	15
29 to 32	8	61 to 64	16

**LTC 8802 Series Monitor Expansion Bay required*

LTC 8808/00 Video Interconnect panels are used to connect system camera inputs above 96 to the main bay and support any requirements for video looping output connections. Refer to the chart below to determine the amount required based on the number of cameras and monitors in your system.

LTC 8808/00 Video Interconnect Panel Quantity

Camera Quantity	Monitor Quantity	Looping inputs not required	Looping inputs are required
1 to 32	Less than 33	0	1
33 to 64	Less than 33	0	2
65 to 96	Less than 33	0	3
97 to 128	Less than 33	1	5
129 to 160	Less than 33	2	7
161 to 192	Less than 33	3	9
193 to 224	Less than 33	4	11
225 to 256	Less than 33	5	13
1 to 32	More than 32	0	0
33 to 64	More than 32	0	0
65 to 96	More than 32	0	0
97 to 128	More than 32	1	2
129 to 160	More than 32	2	4
161 to 192	More than 32	3	6
193 to 224	More than 32	4	8
225 to 256	More than 32	5	10

Optional accessories:

If external contacts will be utilized to activate alarm video switching, LTC 8540/00 Alarm Interface Units and, if necessary, LTC 8713/x0 Alarm Port Expander Units can be added to the system. Follow the table below to determine the appropriate quantities required.

Alarm Interface and Alarm Expander Quantities

Alarm Inputs	LTC 8540/00 Alarm Unit Qty.	LTC 8713/x0 Expander Qty.
1 to 64	1	0
65 to 128	2	1
129 to 192	3	1
193 to 256	4	1
257 to 320	5	3
321 to 384	6	3
385 to 448	7	3
449 to 512	8	3
513 to 576	9	4
557 to 640	10	4
641 to 704	11	4
705 to 786	12	4
769 to 832	13	5
833 to 896	14	5
987 to 960	15	5
961 to 1024	16	5

An external power supply will be required for each Alarm Interface Unit when quantities are greater than 1. The TC120PS power supply is used for 120VAC line sources, and the TC220PS is used for 230VAC line sources.

If the system will include controllable PTZ equipped cameras, add one LTC 8568/00 Signal Distribution Unit for up to 32 separate control code outputs or one LTC 8768/00 Signal Distribution Unit for up to 64 separate control code outputs. If required, LTC 8569/x0 or LTC 8571/x0 series Code Merger Units models are available which provide an additional 32 or 64 outputs respectively when cascaded to the Signal Distribution unit.

If the system will utilize more than 8 keyboards for a single main bay only system, or more than 16 keyboards if an LTC 8802/x0 Monitor Expansion bay is used, a quantity of LTC 8714/x0 Keyboard Port Expanders will be required and, if necessary, an LTC 8715/x0 Keyboard Expander Expander unit. For each expanded keyboard, a LTC 8557/x0 Remote Hookup kit will also be required. Refer to the table below to determine the appropriate quantity of Port Expander units:

Keyboard Expander Quantities

No LTC 8802/x0 Monitor Expansion bay			With LTC 8802/x0 Monitor Expansion bay		
System	LTC 8714/x0	LTC 8715/x0	System	LTC 8714/x0	LTC 8715/x0
Keyboards	Expander Quantity	Expander Quantity	Keyboards	Expander Quantity	Expander Quantity
1 to 8	0	0	1 to 8	0	0
9 to 16	1	0	9 to 16	0	0
17 to 24	2	1	17 to 24	1	0
25 to 32	3	1	25 to 32	2	1

Other accessory products may be applicable in your system configuration. Please refer to the section on Allegiant Accessories for complete details on accessory products.

Installation basics:
Install main bay in rack. If applicable, install monitor expansion bay in rack, and connect supplied video ribbon cables between the two bays. Insert the VIMs and VOMs into the bay(s), then connect camera and monitor coax cables to BNC connectors found on rear of unit(s). Connect one or more keyboards for programming and control. If applicable, connect external PC, external Alarm Interface unit for alarms, external Signal Distribution unit for camera control functions, and any applicable port expander device to appropriate data connections on rear of unit.

System programming can then be accomplished using either a system keyboard or via one of the optional external Bosch PC based software packages (see accessory section).

"From the Matrix Switch to every monitor and camera, I have been more than pleased with the high quality standards of every Bosch product we use."

Daniel W. Eitnier
Director of Surveillance
Venetian Resort Hotel Casino

Photograph courtesy of the Venetian Resort Hotel Casino.

LTC 8900 Series

For extremely large size, modular based Allegiant systems.

- Modular construction utilizes multiple video matrix bays and video modules to realize full matrix crosspoint switching of 4096 cameras by 512 monitors.
- Standard single CPU or redundant dual CPU / dual power supply system configurations available.
- Optional external alarm and remote control signal distribution accessory devices available.
- Full control and programming by up to 64 keyboards.
- RS-232 Serial port for external PC interface support.
- Integral 2-U and 6-U high rack enclosures.
- 2-digit site and 4-digit camera identification mode.

Ordering Information:
Because of the numerous main system components that comprise a typical LTC 8900 series system, parts list quantities are determined by Bosch Security Systems representatives. Please contact your local Bosch Security Systems Sales representative for ordering assistance.

Please be ready to provide the following information:

1. Desired system camera capacity.
2. Desired system monitor capacity.
3. AC line voltage input (120VAC, 60Hz or 230VAC, 50Hz).
4. Specify if either a standard system or a system containing a redundant CPU/power supply configuration is required.
5. In systems utilizing a redundant CPU and less than 65 monitors, you can also specify if the design should employ a redundant system configuration. This type of configuration would force a design that includes at least 2 monitor bays. The use of 2 monitor bays reduces the chance of a single point failure causing a loss of all video signals, even if the system's redundant CPU remains in operation.
6. Video input looping requirements.

Optional accessories:
If external contacts will be utilized to activate alarm video switching, LTC 8540/00 Alarm Interface Units and, if necessary, LTC 8713/x0 Alarm Port Expander Units can be added to the system. Follow the table below to determine the appropriate quantities required.

Alarm Interface and Alarm Expander Quantities

Alarm Inputs	LTC 8540/00 Alarm Unit Qty.	LTC 8713/x0 Expander Qty.
1 to 64	1	0
65 to 128	2	1
129 to 192	3	1
193 to 256	4	1
257 to 320	5	3
321 to 384	6	3
385 to 448	7	3
449 to 512	8	3
513 to 576	9	4
557 to 640	10	4
641 to 704	11	4
705 to 786	12	4
769 to 832	13	5
833 to 896	14	5
987 to 960	15	5
961 to 1024	16	5

An external power supply will be required for each Alarm Interface Unit when quantities are greater than one. The TC120PS power supply is used for 120VAC AC line sources, and the TC220PS is used for 230VAC line sources.

If the system will include controllable PTZ equipped cameras, add one LTC 8568/00 Signal Distribution Unit for up to 32 separate control code outputs or one LTC 8768/00 Signal Distribution Unit for up to 64 separate control code outputs. If required, LTC 8569/x0 or LTC 8571/x0 series Code Merger Units models are available that can provide an additional 32 or 64 outputs respectively when cascaded to the Signal Distribution unit.

If the system will utilize more than 8 keyboards, a quantity of LTC 8714/x0 Keyboard Port Expanders will be required and, if necessary, an LTC 8715/x0 Keyboard Expander Expander unit. For each expanded keyboard, a LTC 8557/x0 Remote Hookup kit will also be required. Refer to the table below to determine the appropriate quantity of Port Expander units:

Keyboard Expander Quantities

System Keyboards	LTC 8714/x0 Expander Quantity	LTC 8715/x0 Expander Quantity
1 to 8	0	0
9 to 16	1	0
17 to 24	2	1
25 to 32	3	1
33 to 40	4	1
41 to 48	5	3
49 to 56	6	3
57 to 64	7	3

Other accessory products may be applicable in your system configuration. Please refer to the section on Allegiant Accessories for complete details on accessory products.

Allegiant Spare Components

LTC 8100, LTC 8200, LTC 8300 Series:
- Integral Systems (no spares recommended)

LTC 8500 Series:
- LTC 8505/x0 – Spare power supply.
- LTC 8511/00 – Spare CPU module.

LTC 8600 Series:
- LTC 8805/x0 – Spare power supply.
- LTC 8610/00 – Spare CPU module.

LTC 8800 Series:
- LTC 8805/x0 – Spare power supply for LTC 8801 series and LTC 8802 series bays.
- LTC 8810/00 – Spare CPU module for LTC 8801 series main CPU bay.
- LTC 8816/00 – Spare Data Receiver module for LTC 8802/x0 Monitor Expansion bay.

LTC 8900 Series:
- Appropriate spare parts depends on system configuration. Consult Bosch Security Systems Sales Representative for assistance.

All Modular Series:
- Appropriate VIMs and VOMs may be recommended for immediate recovery in the rare case of component failure.

Accessories

Allegiant accessories are designed to be user-friendly and compatible throughout the entire Allegiant product line. Here is a brief description of the accessories currently available:

Keyboards provide system programming and pan/tilt/zoom equipped camera related control functions. A 3 m (10 foot) cable for data/power connections is included. Available keyboard models are:

LTC 8555/00 – LED based, compact size, full function keyboard with variable speed joystick.
KBD-Universal – LCD based display, full function keyboard with variable speed joystick. Optional KBD-SFTCFG PC based configuration software package available for customizing softkey labels and entering Allegiant based macro functions. (shown)
LTC 8555/02 – Full function keyboard similar to LTC 8555/00, except utilizes RS-232 protocol.

Keyboard accessories include:

LTC 8558/00 – Extension cable for remoting keyboard up to 30 m (100 foot) away from main CPU bay.

LTC 8557/x0 – Extension kit for remoting keyboard up to 1.5 km (5,000 foot) away from main CPU bay via user supplied shielded twisted pair cable. Required with keyboard expansion units.

KBD-RACK — Rack kit for the KBD-Universal keyboard. Provides vertical, 45° inclined, or horizontal mounting capabilities. Designed to fit 19-inch EIA rack standard.

KBD-SFTCFG — a PC based software program which is used to customize the KBD Universal keyboard's text displays and/or for entering softkey functions for activating Allegiant Command Script macros.

LTC 8016/90 Allegiant Bilinx Data Interface Unit —allows an Allegiant system to communicate with Bilinx compatible cameras and devices over the coax cable. In addition to sending pan/tilt/zoom control signals to a camera, alarm and status information can be transmitted from the camera site back to the Allegiant system using Bilinx communication technology.

Signal Distribution Units send control code to AutoDome and Receiver/Driver cameras.

LTC 8568/00 – Control code distribution and line driver unit for data communication to receiver/drivers and AutoDome series cameras. Provides 32 separate outputs for 'star' wiring to remote camera sites at distances of 1.5 km (5,000 feet). Each output can also be connected using 'daisy chain' convention for up to 8 remote devices. Data/power interface cable to Allegiant main CPU bay included. Not required in LTC 8100, LTC 8200, or LTC 8300 systems.

LTC 8768/00 – Same specifications as LTC 8568/00, except provides 64 separate control code outputs.

LTC 8540/00 – Alarm Interface Unit accepts up to 64 dry contact inputs to provide automatic call-up of system video on alarm. Eight relay outputs are available for controlling external devices, such as VCRs or alarm sirens.

Code Merger Units combine control code from two or four systems to communicate to receiver/drivers, switcher/followers and Allegiant satellite systems. Same control code output drive characteristics as shown for the LTC 8568/00 Signal Distribution unit. Four model variations are available:

LTC 8569/x0 – Two input, 32 separate output model.

LTC 8570/x0 – Four input, 32 separate output model.

LTC 8571/x0 – Two input, 64 separate output model.

LTC 8572/x0 – Four input, 64 separate output model.

LTC 8770/x0 – Switcher/follower Unit provides 24 separate relay contact closures that automatically operate according to the cameras displayed on system monitors. Six selectable functional operating modes are available. Relays can be interfaced to various external devices, such as LED panels, sirens, audio equipment, etc.

LTC 8059/00 – Allegiant Master Control Software for Windows® adds the power of the PC for programming Allegiant switcher settings. Provides advanced programming features not available via system keyboards. Software included with LTC 8900 systems. Includes RS-232 Allegiant interface cable. Ideal for managing meduim to large systems or satellite systems

Windows based Graphical User Interface (GUI) makes control of an Allegiant system as easy as point and click. Provides complete control over system operation, and includes Allegiant Master Control Software program for advanced programming functions. Supports Ethernet based network interface from workstation(s) to PC at Allegiant site. Includes RS-232 Allegiant interface cable and software license key. Three versions are available based on the number of workstations required.

LTC 8850/00 – Single workstation license.

LTC 8851/00 – Five workstation license.

LTC 8852/00 – Ten workstation license.

Port Expander Units provide the capability of connecting additional keyboards, alarm interface units, and other external computing devices to an Allegiant system. The following models are available:

LTC 8712/x0 – Console Port Expander provides 4 interface RS-232 Allegiant Console ports for connection to external PCs or other computing devices.

LTC 8713/x0 – Alarm Port Expander provides 4 interface ports for connecting LTC 8540/00 Alarm Interface Units.

LTC 8714/x0 – Keyboard Port Expander provides 8 ports for connecting Allegiant keyboards.

LTC 8715/x0 – Expander unit for Keyboard Port Expander provides 4 ports for connecting additional LTC 8714/x0 units to Allegiant system.

Data Converter Units convert Allegiant control code to and from other standard data signals.

LTC 8780/x0 – Converts Allegiant biphase control code into RS-232 format or RS-232 into biphase. Required in Allegiant Satellite configurations to provide site address decoding. Can also be used as remote Signal Distribution unit, providing 15 separate outputs.

LTC 8781/x0 – Decodes/converts Allegiant biphase control code containing system time/date information into RS-422 format designed to interface to Kalatel series Time/Date generators.

LTC 8785/x0 – Data converter device that changes variable speed control code into equivalent fixed speed control code. For use where the main Allegiant system has been upgraded, but the older receiver/drivers in the field are only capable to responding to the older ‘fixed speed’ protocol.

LTC 8808/00 Video Interconnect Panel – Converts 32 BNCs into video ribbon cable connections to provide video looping outputs for Allegiant series switchers. This panel is also used for monitor output connections in LTC 8900 series systems. Includes two 2 m (6 foot) LTC 8809/00 video ribbon cables.

LTC 8807/00 Video Interconnect Panel – Identical to the LTC 8808/00, except it does not include the two LTC 8809/00 video ribbon cables. For integration of LTC 8016.

LTC 8809/00 Video Ribbon Cables – 2 m (6 foot), 16-channel cables designed for use with video signal transmissions. These cables are used in LTC 8800 and LTC 8900 systems for inter-bay video connections. In LTC 8800 systems, cables are automatically included with the purchase of the LTC 8802 Monitor Expansion bay. In LTC 8900 systems, they must be ordered separately based on the system configuration. Two LTC 8809/00 cables are included as part of an LTC 8808/00 Video Interconnect panel.

LTC 8508/00 Video Ribbon-to-BNC Cable – Is similar to the LTC 8809/00 video ribbon cable, except it has 16 (male) BNC connectors at one side of the cable. This adapter cable can be used to simplify the interface from a system’s ribbon cable connector to an external video device having standard BNC connectors.

LTC 8506/00 Console Interface cable – Used to connect an Allegiant main CPU bay to an external PC. This is the same cable which is included with the purchase of any of the Allegiant software packages.

LTC 8782/x0-zz Code Translator Unit – Converts Allegiant biphase control code to or from other manufacturer’s control codes. Various models are available (as indicated by the “zz” number designation), each designed to convert a specific manufacturer’s control code. Please contact your local Bosch Security Systems Sales representative for complete details.

Receiver/Drivers – Used to decode and convert Allegiant control code commands into appropriate voltages for driving pan/tilt and zoom lens devices. Refer to models below for various AC supply options, and output pan/tilt voltages available, in either basic or full featured units:

LTC 8560/60 – Basic function model with 120VAC AC line input and 120VAC output for pan/tilt.

LTC 8561/60 – Full feature model with 120VAC AC line input and 120VAC output for pan/tilt.

LTC 8562/60 – Basic function model with 120VAC AC line input and 24VAC output for pan/tilt.

LTC 8566/60 – Full feature model with 120VAC AC line input and 24VAC output for pan/tilt.

LTC 8560/50 – Basic function model with 230VAC AC line input and 230VAC output for pan/tilt.

LTC 8561/50 – Full feature model with 230VAC AC line input and 230VAC output for pan/tilt.

LTC 8562/50 – Basic function model with 230VAC AC line input and 24VAC output for pan/tilt.

LTC 8566/50 – Full feature model with 230VAC AC line input and 24VAC output for pan/tilt.

LTC 8563/20 – Basic function model with 24VAC AC line input and 24VAC output for pan/tilt.

LTC 8564/20 – Full feature model with 24VAC AC line input and 24VAC output for pan/tilt.

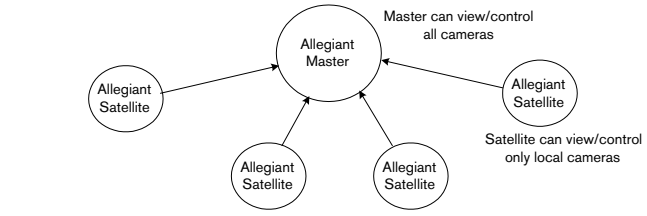
Other related products:

• AutoDome series PTZ dome cameras integrate high speed pan/tilt, 360° continuous rotation, pre-position, etc. in a small, easy-to-install lightweight package.

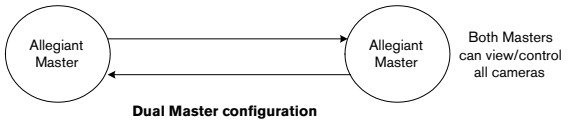
Note: Substituting the number 6 for the “x” in applicable model numbers shown in this publication refers to the 120VAC, 60Hz. version of the product. Substituting the number 5 for the “x” refers to the 230VAC, 50Hz. version.

Allegiant Satellite Concepts

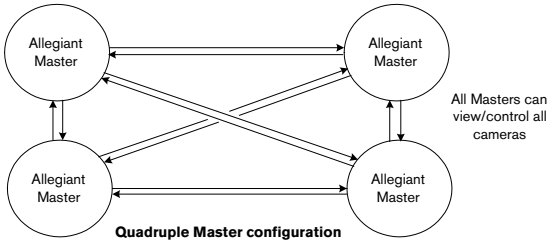
A satellite system configuration is usually used for a large distributed system, or to obtain extremely large matrix sizes configured more conventionally. Typically, a single Main control site can be used to view/control cameras located both locally and at various remote satellite sites. Since many satellite sites can be linked to a single Main control site, very large, distributed systems can be achieved. If the satellite systems are located at the same site as the Main system, the result is a large conventional-type system. In a satellite configuration, the Main control site can view/control any camera in the entire system, but the remote satellite sites can only view/control cameras associated with their own site. Satellites may be configured to operate either independently or, with no local viewing/control capability.



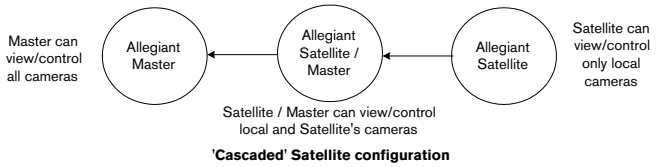
Typical Master / multiple Satellite configuration



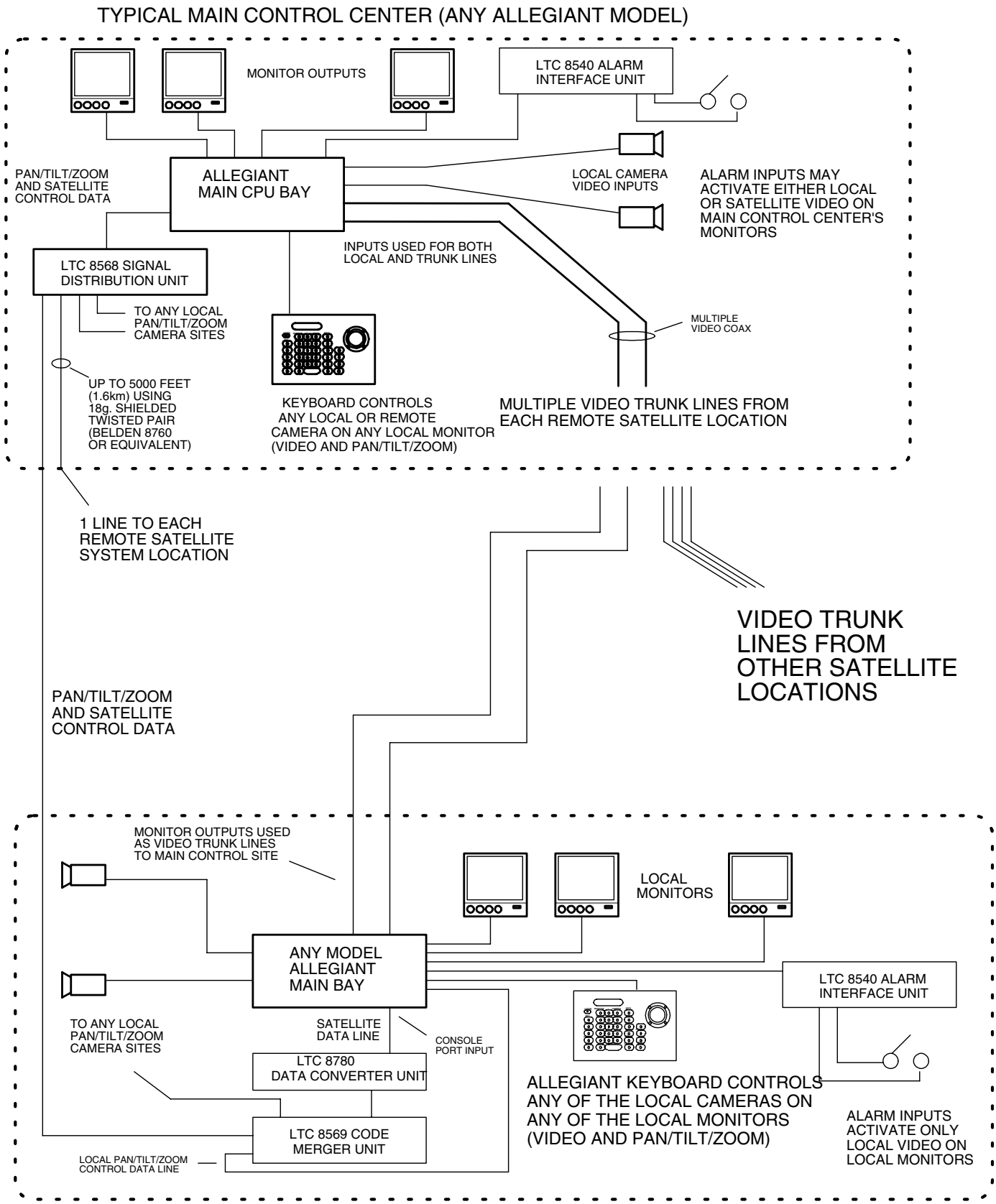
Dual Master configuration



Quadruple Master configuration



'Cascaded' Satellite configuration


TYPICAL MAIN CONTROL CENTER (ANY ALLEGIANT MODEL)
MONITOR OUTPUTS
LTC 8540 ALARM INTERFACE UNIT
PAN/TILT/ZOOM AND SATELLITE CONTROL DATA
ALLEGIANT MAIN CPU BAY
LOCAL CAMERA VIDEO INPUTS
ALARM INPUTS MAY ACTIVATE EITHER LOCAL OR SATELLITE VIDEO ON MAIN CONTROL CENTER'S MONITORS
INPUTS USED FOR BOTH LOCAL AND TRUNK LINES
LTC 8568 SIGNAL DISTRIBUTION UNIT
TO ANY LOCAL PAN/TILT/ZOOM CAMERA SITES
MULTIPLE VIDEO COAX
UP TO 5000 FEET (1.6km) USING 18g. SHIELDED TWISTED PAIR (BELDEN 8760 OR EQUIVALENT)
KEYBOARD CONTROLS ANY LOCAL OR REMOTE CAMERA ON ANY LOCAL MONITOR (VIDEO AND PAN/TILT/ZOOM)
MULTIPLE VIDEO TRUNK LINES FROM EACH REMOTE SATELLITE LOCATION
1 LINE TO EACH REMOTE SATELLITE SYSTEM LOCATION
VIDEO TRUNK LINES FROM OTHER SATELLITE LOCATIONS
PAN/TILT/ZOOM AND SATELLITE CONTROL DATA
MONITOR OUTPUTS USED AS VIDEO TRUNK LINES TO MAIN CONTROL SITE
LOCAL MONITORS
ANY MODEL ALLEGIANT MAIN BAY
LTC 8540 ALARM INTERFACE UNIT
TO ANY LOCAL PAN/TILT/ZOOM CAMERA SITES
SATELLITE DATA LINE
CONSOLE PORT INPUT
LTC 8780 DATA CONVERTER UNIT
ALLEGIANT KEYBOARD CONTROLS ANY OF THE LOCAL CAMERAS ON ANY OF THE LOCAL MONITORS (VIDEO AND PAN/TILT/ZOOM)
LTC 8569 CODE MERGER UNIT
LOCAL PAN/TILT/ZOOM CONTROL DATA LINE
ALARM INPUTS ACTIVATE ONLY LOCAL VIDEO ON LOCAL MONITORS