



LTC 8780 Series Data Converter Units



- ▶ **Designed for various applications utilizing Allegiant Series Switchers**
- ▶ **Converts Allegiant Bi-Phase control code to RS-232 and RS-232 to Bi-Phase**
- ▶ **Provides satellite address decoding**
- ▶ **Signal distribution mode provides 15 separate outputs**

The LTC 8780 Series are accessory units that convert the Allegiant system's Bi-Phase control code into RS-232, or convert RS-232 back to Bi-Phase code. They provide the capability of transmitting the control code over conventional RS-232 transmission mediums such as phone modems, fiber optics, microwaves, etc.

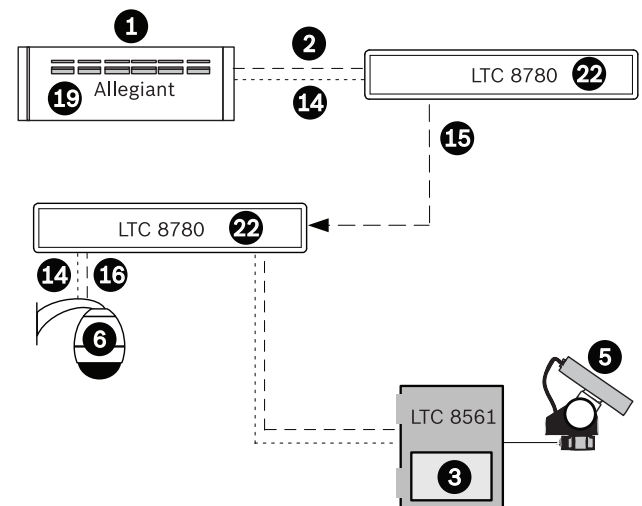
The unit accepts the Bi-Phase control code generated by an Allegiant main CPU bay, Bosch Series DVRs, Signal Distribution units, and LTC 8569 Series Code Merger units.

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 remote distribution units for driving up to 120 receiver/driver devices connected to its 15 outputs. As a distribution unit, wiring can be in either a star or daisy chain configuration, and each output is capable of driving eight (8) daisy chained receiver/driver loads, at up to 1.5 km (5000 ft) away using 1 mm² (18 AWG) shielded twisted pair (Belden 8760 or equivalent).

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

Installation/Configuration Notes



Code Conversion Application (Figure 1)

Technical Specifications

Electrical

Model No.	Rated Voltage	Voltage Range
LTC 8780/50	230 VAC, 50/60 Hz	198 to 264
LTC 8780/60	120 VAC, 50/60 Hz	108 to 132
Power at Rated Voltage	4 W	
Indicators	Power: Green LED Code In: Green LED RS-232 In: Green LED Code Out: Red LED RS-232 Out: Red LED	

Connectors

Inputs	Bi-Phase control code: One (1), 15-pin connector (mating connector supplied) RS-232: One (1), 9-pin male connector (pin compatible with industry standard modem cable (mating cable not supplied))
Outputs	Bi-Phase control code: Three (3), 15-pin connectors providing a total of 15 separate Bi-Phase outputs (mating connectors supplied) Console: One (1), 9-pin male connector (mating cable compatible with Allegiant Console port supplied)
AC Input	3-wire power cord with grounded plug; 1.8 m (6 ft) long

Mechanical

Construction	Steel chassis with sheet metal cover and plastic bezel
Finish	Charcoal
Dimensions (W x D x H)	223 x 280 x 40 mm (8.77 x 11 x 1.59 in.)
Weight	1.6 kg (3.5 lb)

Environmental

Temperature	Operating: -18°C to 50°C (0°F to 122°F) Storage: -40°C to 60°C (-40°F to 140°F)
Humidity	10% to 90% relative, non-condensing
Vibration	3 g swept sine wave, 15 Hz to 2000 Hz
Shock	30 g, 11 ms, ½ sine

Options

LTC 9101/00 Rack Kit	For mounting one or two units in an EIA 48 cm (19 in.) rack
Height	One (1) standard rack unit
Width	One (1) standard rack unit

Ordering Information

LTC 8780/50 Data Converter Unit Allegiant biphas control code to RS-232, 230 VAC, 50 Hz	LTC 8780/50
LTC 8780/60 Data Converter Unit Allegiant Biphas control code to RS-232, 115 VAC, 60 Hz	LTC 8780/60
Accessories	
LTC 9101/00 Rack Kit Rack kit for up to two half rack products, with blank, 1.75-inch high	LTC 9101/00

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