

Instructions for Use



Code Merger RS-485/Biphase Control Code merger and transmission standard converter.

1.PRODUCT DESCRIPTION

Control code merger unit is designed to combine RS-485 or Allegiant BiPhase control code from two systems for communication to AutoDome series cameras, receivers, drivers etc. This unit is specifically designed to enable control of a single PTZ camera from two operation posts, with master/slave priority system.

The Code Merger unit provides two RS-485/Biphase inputs with programmable baud rate via configuration switches and one RS-485/Biphase output with fixed baud rate.

2.SPECIFICATIONS

SIZE:	92x66x28 mm
POWER:	9 Volt to 24 Volt AC or DC, 100mA
INDICATORS:	Top panel LED: Power, Rx, & Tx,
RS-485/BIPHASE INPUT 1 (Master):	3-pin screw terminal
RS-485/BIPHASE INPUT 2 (Slave):	3-pin screw terminal
RS-485/BIPHASE OUTPUT:	3-pin Screw terminal
BAUD RATE RS-485 CODE:	9600 b/s to 57600 b/s

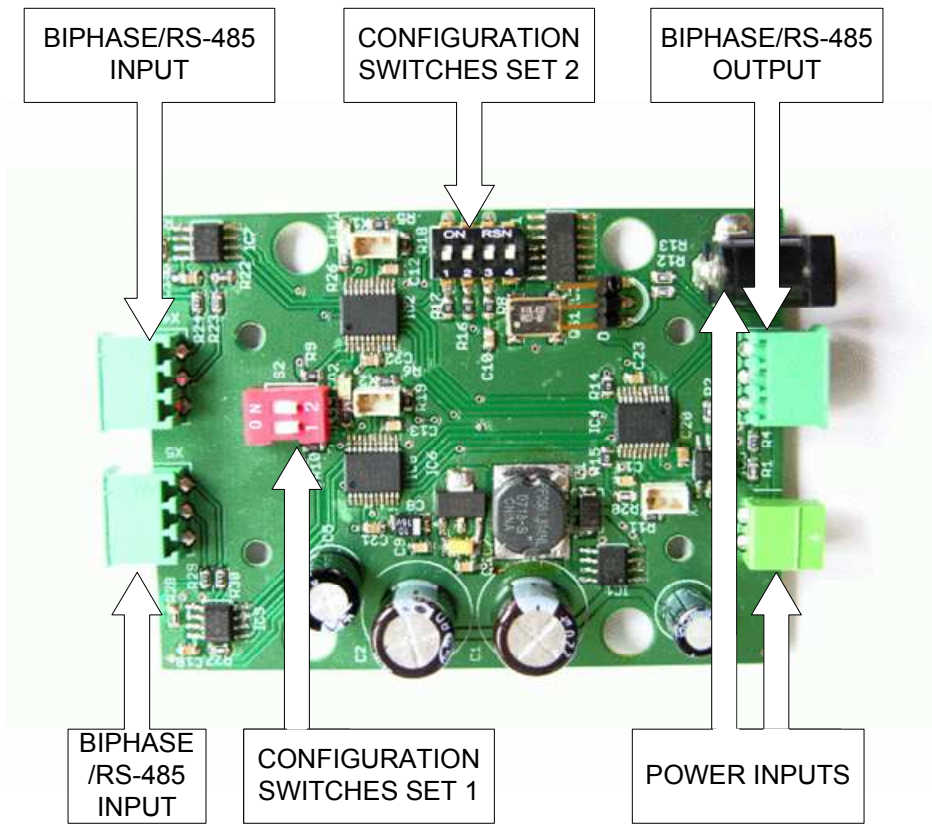
3.OPERATION

Code Merger combines two data streams to enable management of any positioning system from two operation posts. Code Merger is designed to force steering priority while using devices connected to input 1 (master). No data from input 2(slave) can be transmitted when message form input 1(master) is transmitted and for one minute after the last message. Also each transmission from input 2 becomes automatically stopped when any data appears on input 1.

Each data input/output can be set to operate as BiPhase or RS-485. It is possible to convert BiPhase into RS-485 transmission standard using Code Merger. Both inputs RS-485 baud rate can be changed from 9600 b/s to 57600 b/s. Output Baud Rate is fixed and is typically set to 9600 b/s. For further information about setting the baud rate and transmission standard see "Setting the configuration switches" paragraph.

4.SETTING THE CONFIGURATION SWITCHES

To set the configuration switches, remove the casing which is secured by four screws.



Configuration switches are placed on the main board as shown on the picture above. Switch set 1 is responsible for setting the input RS-485 baud rate . The following configurations are available:

Switch 1	Switch 2	Baud Rate
OFF	OFF	9600 b/s
OFF	ON	19200 b/s
ON	OFF	38400 b/s
ON	ON	57600 b/s

Switch set 2 is responsible for choosing data type (BiPhase or RS-485). Each interface data type is chosen independently. The configuration is shown on the following table.

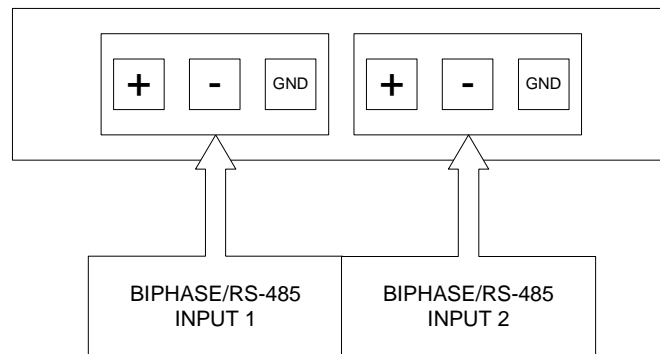
Switch Number	Data interface	Configuration
Switch 1	Input 1	OFF BiPhase
		ON RS-485
Switch 2	Input 2	OFF BiPhase
		ON RS-485
Switch 3	Output	OFF BiPhase
		ON RS-485

The switches can be changed only without power applied. The changes take effect only after unit is powered.

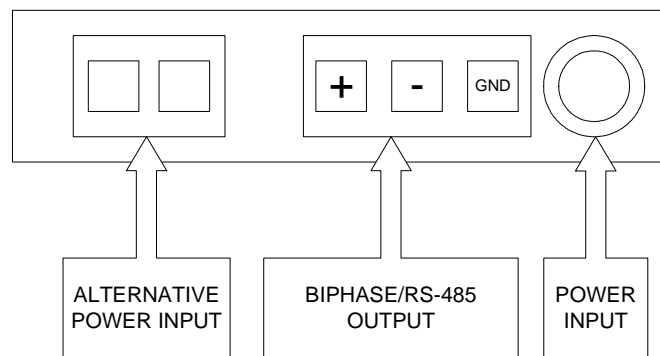
5.INSTALLATION AND POWER

Installing the code merger unit requires to connect input and output wires. Proper connection to each connector is shown on the graphs below.

FRONT PANEL



REAR PANEL



A power supply having either a 9-24 V 100mA, AC or DC is required.

Two power input connections to the converter unit are available. Both can be used alternatively, and the choice varies depending upon the specific application. Use whichever application is most suitable to your configuration.

6.TYPICAL CONFIGURATION

