

**SPECIFICATIONS**

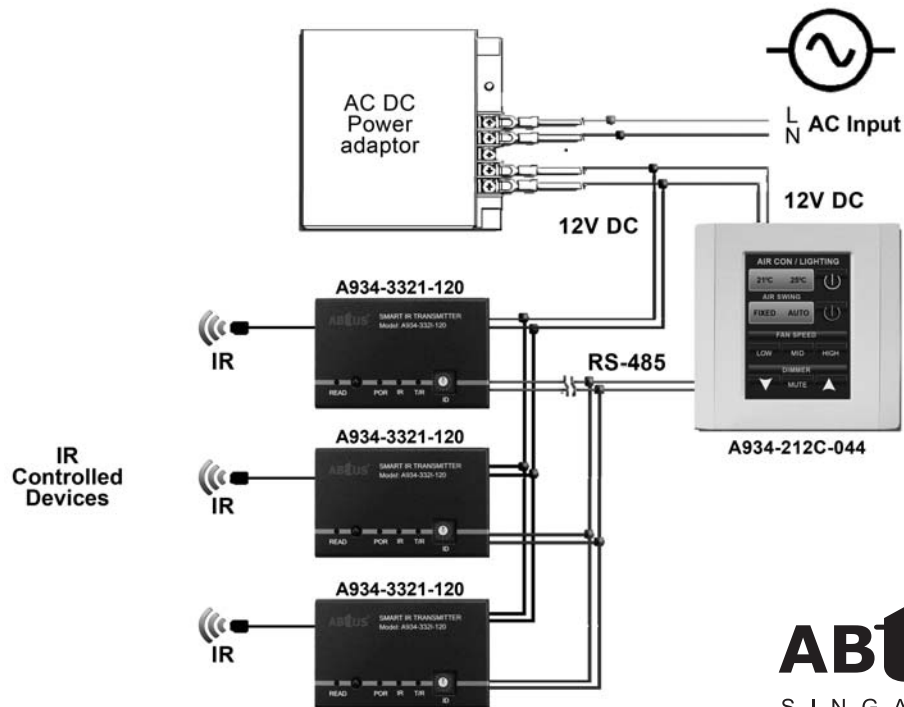
LED INDICATION	With LED Indication for all functions
COMMUNICATION STANDARD	RS-485 or RS-232
COM PORT	RS-485 or RS-232 Selectable
IR OUT	1 x 3.5mm Mini Jack
MEMORY	32 IR Codes
NUMBER OF UNIT ID AVAILABLE	16 ID
<b>MECHANICAL</b>	
HOUSING	Metal Enclosure
<b>PRODUCT</b>	
DIMENSIONS (L x W x H)	74 x 46 x 22mm
WEIGHT	173.2 g
<b>PACKAGE INCLUDE</b>	
	1 x IR Control Module
	1 x 12 V DC Power Adaptor
	1 x User Manual
	1 x 3 Pin Terminal Block, 1 x 2 Pin Terminal Block
	1 x Base Plate for Mounting (*With 2 x Mounting Screws)

# SMART IR Transmitter

Smart IR Transmitter (With Learning Function)



Model: **A934-3321-120**



## PRODUCT DESCRIPTION

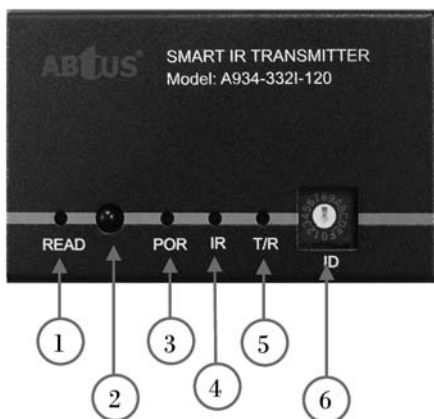
The **ABTUS A934-332I-120** is a self contain Smart IR Transmitter. Apart from its learning function with a special circuit design that makes IR carrier recognition possible, it also has a capable storage up to 32 IR codes that can be used to avoid all cumbersome issue handling with different as well as numbers of IR remote controller. It acts as a centralized IR control system, it will also be able to easily relocation a control panel with a standard RS-485 (Standard J1708 Bus) communication protocol.

Replacement of conventional 1 to 1 control setup to many or 1 to many controlling as well as grouping are now made possible.

## PRODUCT HIGHLIGHTS

- Powerful IR learning, ability to learning all kinds of IR code and also simultaneously record it's carrier frequency
- Memory: record up to 32 IR code in different formats
- Software support is able to clearly identified and analysis different type IR code which then be stored or copy to another unit

## 1.0 TOP PANEL VIEW



Item		Description
1.	READ	Learning Indicator
2.	IR Sensor	IR receiver for Learning
3.	POR	Power Indicator
4.	IR	IR Output Status Indicator
5.	T/R	Communication Indicator
6.	ID	Unit ID setting selector

## 1.1 FRONT AND BACK PANEL VIEW



Item		Description
1.	IR OUT	IR Output port
2.	RS-485/232	RS-485 or RS-232 I/O Port
3.	485/232	RS-485 or RS-232 selection
4.	POWER	12 V DC (Non polarity design)

## 1.2 RS-232 Command Protocol & Control Codes

### RS-232 Parameter setting

Baud Rate:	9600 bps
Data Length:	8 bits
Parity bit:	Non parity
Stop bit:	1 stop bit
X on/off:	None

## Model No.: A-934-332I-120 (Smart IR Transmitter Module)

Item	Function	OperationType	Command Code (Hex)
1.	Send IR Code in Location 1 (ID-0)	Set	E0 00 43 00 01 00 30 30 31 EF
2.	End Transmit	Set	E0 00 43 00 A0 AA 30 30 30 EF
3.	Send IR Code in Location 10 (ID-0)	Set	E0 00 43 00 01 00 30 31 30 EF
4.	Send IR Code in Location 32 (ID-0)	Set	E0 00 43 00 01 00 30 33 32 EF
5.	Send IR Code in Location 1 (ID-1)	Set	E0 01 43 00 03 00 30 30 31 EF
6.	End Transmit (ID-1)	Set	E0 01 43 00 A0 AA 30 30 30 EF
7.	Send IR Code in Location 1 (ID-2)	Set	E0 02 43 00 03 00 30 30 31 EF
8.	End Transmit (ID-2)		E0 02 43 00 A0 AA 30 30 30 EF
9.	Send IR Code in Location 1 (ID-F)	Set	E0 0F 43 00 03 00 30 30 31 EF
10.	End Transmit (ID-F)		E0 0F 43 00 A0 AA 30 30 30 EF
11.	Send IR Code in Location 2 (ID-0) with "end Transmit"	Set	E0 00 43 00 01 00 30 30 32 EF FF FF FFE0 00 43 00 A0 AA 30 30 30 EF
12.	Send IR Code in Location 3 (ID-0) with "end Transmit"	Set	E0 00 43 00 01 00 30 30 33 EF FF FF FFE0 00 43 00 A0 AA 30 30 30 EF
13.	Send IR Code in Location 4 (ID-0) with "end Transmit"	Set	E0 00 43 00 01 00 30 30 34 EF FF FF FFE0 00 43 00 A0 AA 30 30 30 EF
14.	Send IR Code in Location 5 (ID-0) with "end Transmit"	Set	E0 00 43 00 01 00 30 30 35 EF FF FF FFE0 00 43 00 A0 AA 30 30 30 EF