

## 1.1 Product Description

The WASABI is a 2 way wireless gateway interface that translates audio files and control commands streamed from a phone over Bluetooth into analog audio inputs to the car radio.

See Table 1.1-1 for product description information.

**Table 1.1-1 Product Description Information**

Product Detail	Description		
Model Number(s)	KCE-300BT		
Bluetooth Software Version Level	1.6.6		
Atmel Software Version Level	Build 26		
Housing Material	General Electric Plastics Lexan		
PCB Material	FR4		
Product Weight (grams)	227		
Product Size (in)	Length = 3.8	Width = 3.0	Height = 1.0
Functional or Mounting Location Classification	Under dash inside of the vehicle		
Software Strategy and/or Test Code	N/A		

The WASABI module has four external connectors. The connector with corresponding description is provided in Table 1.1-2. The RF signal from a BT enabled device is received through an antenna mounted on the PCB.

**Table 1.1-2. Connector Description**

Connector	Description
HU	to transfer control command between car radio and WASABI; output analog audio to car radio
EXT	iPod input; to receive analog audio from iPod
POWER	Power supply input
MIC	Microphone input

## 1.2 Application Environment

This product is a single component of a multi-component system. This product will be enclosed in housing. The application and mounting environment will vary from vehicle to vehicle. The table below lists the designed parameters for the product and not the overall system that it will be a part of. The application environment parameters for the module are summarized in Table 1.1-3.

**Table 1.1-3. Application Environment Parameters**

Parameter	Units	Tolerance	Nominal	Lower Limit	Upper Limit
Operating Voltage	Volts	+/- .2	13.5	10	16
Operating Current BT	mA	+/- 10	110	50	150
Non-operating Current	uA	+/- 10		0	100
Ambient Temperature ( $T_{AMB}$ )	°C	+/- 10	25	15	35
Operating Temperature ( $T_{OPER}$ )	°C	N/A	25	-20	70
Storage Temperature ( $T_{STOR}$ )	°C	N/A	25	-30	85
Humidity (Moisture)	%RH	+/- 10	85	10	90
Random Vibration (Frequency)	Hz	N/A	N/A	20	2000