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# udp

## rcb.udp

new udp()

UDP interface functions

Source: [rcbApi.js, line 1391](#)

### Example

```
var receive_port = 55047; // the listening port
var send_ip = "192.168.1.114"; // where to send
var send_port = 64126; // on which port to send

rcb.udp.init(receive_port, send_ip, send_port, U

rcb.udp.onReceive(function UDPReceived(arrayBuff
    var message = rcb.udp.ab2str(arrayBuffer);
    rcb.console.print("Received: " + message);
});

function UDPInitialized(){
    var buffer = rcb.udp.str2ab("Hi from RCbench
    rcb.udp.send(buffer);
}
```

## Methods

(static) ab2str(arrayBuffer) → {String}

Helper function that converts an ArrayBuffer Object to a string.

### Parameters:

Name	Type	Description

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Name	Type	Description
arrayBuffer	ArrauBuffer	The buffer to convert.

Source: [rcbApi.js, line 1480](#)

Returns:

The string representation of the ArrayBuffer Object.

Type      String

(static) `init(receivePort, SendIP, SendPort, callbackopt)`

Create an UDP socket for external communication.  
Only one socket can be opened at a time.

Parameters:

Name	Type	Attributes	Description
receivePort	Integer		The port to which the UDP packets will be received on this machine.
SendIP	String		The IP address of the receiver for the packets
SendPort	Integer		The port to send the packets to.

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Name	Type	Attributes	Description
callback	udpReady	<optional>	The function to execute when the UDP socket is ready.

Source: [rcbApi.js, line 1404](#)

(static) onReceive(callback)

Calls the specified callback function when new data is received.

Parameters:

Name	Type	Description
callback	UDPdataReceived	The function to execute when the UDP message is sent.

Source: [rcbApi.js, line 1452](#)

(static) send(sendData, callback<sub>opt</sub>)

Sends a packet to the IP/Port specified in the rcb.udp.init function.

Parameters:

Name	Type	Attributes	Description
sendData	ArrayBuffer		The data to send. Use the str2ab helper function.

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Name	Type	Attributes	Description
callback	UDPSent	<optional>	The function to execute when the UDP message is sent.

Source: [rcbApi.js, line 1430](#)

(static) str2ab(str) → {ArrayBuffer}

Helper function that converts a string into an ArrayBuffer Object.

Parameters:

Name	Type	Description
str	String	The string to convert.

Source: [rcbApi.js, line 1466](#)

Returns:

The ArrayBuffer Object, which can be sent to the UDP functions

Type      ArrayBuffer

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