

JavaScript SDK Guide

Official SDK for Node.js and browser-based applications to interact with the Edgesense REST APIs.

Installation

For Node.js:

Install using npm:

```
npm install @edgesense/sdk
```

Or using yarn:

```
yarn add @edgesense/sdk
```

For Browser (via CDN):

```
<script src="https://cdn.edgesense.io/sdk/v1/edgesense.min.js"></script>
```

The SDK will be available globally as Edgesense.

Authentication

You will need an API key to initialize the SDK.

You can generate it from the Edgesense dashboard under:

Settings → API Keys → Generate Key

Node.js Example:

```
const { Edgesense } = require('@edgesense/sdk');
```

```
const client = new Edgesense({  
  apiKey: 'YOUR_API_KEY'  
});
```

Browser Example:

```
const client = new Edgesense({  
  apiKey: 'YOUR_API_KEY'  
});
```

Basic Usage

1. Get All Devices

```
client.devices.list().then(devices => {  
  devices.forEach(device => {  
    console.log(device.name, device.status);  
  });  
});
```

2. Register a New Device

```
client.devices.register({  
  name: 'Motor-01',  
  type: 'vibration',  
  location: 'Assembly Line B'  
}).then(device => {  
  console.log('Registered:', device.id);  
});
```

3. Send Telemetry Data

```
client.telemetry.send('DEVICE_ID', {  
  temperature: 64.3,  
  vibration: 0.02,  
  timestamp: new Date().toISOString()  
});
```

4. Fetch Telemetry History

```
client.telemetry.fetch('DEVICE_ID', {
  startTime: '2025-07-23T00:00:00Z',
  endTime: '2025-07-23T23:59:59Z'
}).then(data => {
  console.log(data);
});
```

SDK Structure

Edgesense(options)

Initialize SDK with the following options:

Option	Type	Required	Description
apiKey	string	✓	Your Edgesense API key
baseUrl	string	✗	Override API URL (optional)

Modules

devices

- `list()` – Get all devices
- `get(deviceId)` – Get a single device
- `register(data)` – Register new device
- `update(deviceId, data)` – Update device info
- `delete(deviceId)` – Delete device

telemetry

- `send(deviceId, data)` – Push telemetry
 - `fetch(deviceId, options)` – Get telemetry history
-

Error Handling

Errors are returned as promises. Use `.catch()` or `try/catch`.

With Promises:

```
client.devices.list()

  .then(devices => console.log(devices))

  .catch(err => console.error('Error:', err.message));
```

With `async/await`:

```
try {

  const devices = await client.devices.list();

  console.log(devices);

} catch (e) {

  console.error('Error fetching devices:', e.message);

}
```

Testing (Node.js)

Use mocking libraries like `nock` or `jest`:

```
jest.mock('@edgesense/sdk');
```

```
test('should fetch devices', async () => {

  Edgesense.mockImplementation(() => ({

    devices: {

      list: jest.fn().mockResolvedValue([{ name: 'TestDevice' }])

    }

  }));

});
```

```
const client = new Edgesense({ apiKey: 'test' });
```

```
const devices = await client.devices.list();  
expect(devices[0].name).toBe('TestDevice');  
});
```

Security Notes (Browser)

- Never expose admin API keys in browser environments.
 - Use read-only or limited-scope keys when accessing from frontend.
 - For secure actions (write/update), use a backend proxy.
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Advanced: Update Configuration

```
client.devices.updateConfig('DEVICE_ID', {  
  sampling_rate: '30s',  
  alertThresholds: {  
    pressure: 100  
  }  
});
```

References

- [REST API Docs](#)
- [Python SDK Guide](#)
- [System Requirements & Installation Manual](#)
- [Dashboard Walkthrough](#)

Contact us for any query at :

Email : support@edgesense.io