To deliver the learning experience required in today’s world, e-learning tools and instant access to digital content are key.

The Critical Links C3™ (Classroom Content Cloud) is the leading solution to dramatically simplify and manage the delivery of digital content and e-learning capabilities to schools, regardless of infrastructure challenges or internet connectivity limitations.

The C3™ solution offers a range of powerful capabilities making it easy for students, teachers, and administrators to curate, publish, manage, and consume content. All delivered in a framework that is both powerful, flexible, and customizable.

**THE C3™ SOLUTION IS COMPRISED OF:**

**C3 APPLIANCE**

The C3 solution is a complete, end-to-end software solution spanning the local micro-cloud (for classroom and school functions) to the central Cloud Control (for content curation, distribution, and management). It creates a safe network environment with a local content repository and e-learning tools. When Internet is available, the C3 manages, filters and optimizes connectivity.

**C3 CLOUD CONTROL**

Centralized cloud service that allows remote administration and curation of C3 devices deployed at schools. The C3 Cloud Control enables e-Learning worldwide, with a centralized point for content and policy management. An authorized C3 Cloud Control instance can be resident either in a private (datacenter) or public cloud environment.

**FOUNDATION LMS**

The C3 comes with Foundation LMS, a basic learning management system which provides student and teacher resources to enable the e-Learning experience. For more advanced requirements, the C3 ships with Moodle - a leading LMS - to allow more advanced implementations of the e-Learning experience.
The C3 solution integrates a cloud-based content, curation, and management with a local point of presence. The result is the power of cloud-based e-Learning even in locations that may not always have internet access:

1. The C3 Micro-Cloud provides a local wi-fi access point, so that students and teachers can connect directly with the micro-cloud device and access all applications, services and content directly, even if 'upstream' network services are not available;

2. Content, in the form of texts and other resources, can be centrally curated in the C3 Cloud Control service, and distributed to any authorized C3 Micro-Cloud whenever a network link is available. In addition, added value resources such as those from approved HTTP and HTTPS web sites can also be included in the local repository - again to be available even if the upstream network is down. Teachers can also load their own content locally, for use with their students- for a more customized learning experience;

3. With the C3 Cloud Control, not only can content and resources be managed centrally, but so can administration and management. Security policies, usage policies, user access levels - all can be managed centrally for an entire region/country of authorized C3s, to ensure uniform compliance and education throughout the entire system.
## C3™ PRODUCT PORTFOLIO

<table>
<thead>
<tr>
<th>C3 Model</th>
<th>C3 Classroom</th>
<th>C3 Hybrid</th>
<th>C3 School</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions (cm)</strong></td>
<td>15.3 x 15.3 x 3.9</td>
<td>18.5 x 4.4 x 19.7</td>
<td>17.5 x 36 x 43.5</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>60 to 480GB SSD or 500GB to 2TB HDD</td>
<td>60 to 480GB SSD or 500GB to 2TB HDD</td>
<td>1 to 2TB HDD (Optional RAID )</td>
</tr>
<tr>
<td><strong>Embedded WiFi Access Point</strong></td>
<td>bgn or bgn/ac</td>
<td>Optional (bgn or bgn/ac)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Intel processor</strong></td>
<td>Celeron</td>
<td>Celeron</td>
<td>Core i3/i5/i7</td>
</tr>
<tr>
<td><strong>Supported users</strong></td>
<td>50</td>
<td>50</td>
<td>100 to 200</td>
</tr>
<tr>
<td><strong>Ethernet Wan Interface (1Gb Ethernet)</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Ethernet LAN Interface (1Gb Ethernet)</strong></td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mobile interface (3G/4G)</strong></td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Battery backup</strong></td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

### Learning Features

**Digital Content Repository**
- Supports any type of content (static web sites, Office files, PDF, video, audio, images)

**Off line Wikipedia**
- Wiki type of content (encyclopedia, dictionaries, etc.)

**Video Caching**
- Download video from URL for offline viewing

**Pre Loaded Content**
- Project specific or publicly available content can be preloaded at manufacturing

**Lesson planning**
- Teachers can aggregate related content packages in class specific lessons

**Learning Management System**
- Interactive LMS based on latest Moodle version

**Local Network & Domain**
- Creates a local network for teachers and students with: Active Directory compatible domain, DNS, DHCP

**User Authentication**
- Support user authentication with local or remote single sign-on capability

**Profile Management**
- Support profile management with preconfigured standards for administrators, teachers, students and guests

**Customizable Interface**
- Organization or school configurable logos and color branding

**Landing page**
- Configurable landing page per user profile (e.g. Student page; Teacher page)

**3rd party applications**
- Easily adds additional applications (Docker or VM)

### Internet Features

**Internet Gateway**
- Routes and control Internet bound traffic by profile

**Internet Caching**
- Optimize Internet usage by caching HTTP and HTTPS requests

**Whitelisting**
- Optionally filter and limit Internet access by user profile

**Firewall**
- Protects access to C3 applications from outside users

**C3 Cloud Control**
- Centralized dashboard for content management and distribution to C3 appliances

**Cloud VPN**
- Enables easy access to C3 for remote management/troubleshooting

**On-line updates**
- System software updates from Critical Links managed update center

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Intel Education Alliance

Find out more and visit www.critical-links.com
or contact us at info@critical-links.com
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