



KMC Commander Selection Guide

An Open, Secure, and Scalable IoT Platform

KMC Commander is a complete IoT platform. Built on open and secure technology, Commander gives you the freedom to start with the simplest of applications and scale to a multi-building solution. When ordering Commander, review the following four categories. For additional information, see the Frequently Asked Questions on the reverse side.

1. Commander Base Packages

Select from four base packages depending on desired connectivity.

| Ethernet | WiFi | Cellular (Verizon) | Cellular (AT&T) |
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| P/N CMDR-CLOUD-BASE | P/N CMDR-CLOUD-BASE-WIFI | P/N CMDR-CLOUD-BASE-VZW | P/N CMDR-CLOUD-BASE-ATT |
| <ul style="list-style-type: none"> • KMC Commander BX <i>CMDR-D5CW-4-32-01</i> • 100 CAPs License <i>Box: CMDR-CAPS-00100</i> <i>Cloud: CMDR-CLOUD-CAPS-00100</i> • 5 GB Cloud Storage (1 Year) <i>CMDR-CLOUD-5GB</i> • DIN-rail Mounting Adapter <i>CMDR-D5-DINMT</i> | <ul style="list-style-type: none"> • KMC Commander BX <i>CMDR-D5CW-4-32-01</i> • Set of 2 WiFi Antennas <i>CMDR-WIFI-ANT</i> • 3' Antenna Extension Cables <i>CMDR-ANT-EXT-3</i> • 100 CAPs License <i>Box: CMDR-CAPS-00100</i> <i>Cloud: CMDR-CLOUD-CAPS-00100</i> • 5 GB Cloud Storage (1 Year) <i>CMDR-CLOUD-5GB</i> • DIN-rail Mounting Adapter <i>CMDR-D5-DINMT</i> | <ul style="list-style-type: none"> • KMC Commander BX <i>CMDR-D5CC-4-32-01</i> • Set of 2 Cellular Antennas <i>CMDR-LTE-ANT</i> • 3' Antenna Extension Cables <i>CMDR-ANT-EXT-3</i> • 100 CAPs License <i>Box: CMDR-CAPS-00100</i> <i>Cloud: CMDR-CLOUD-CAPS-00100</i> • 5 GB Cloud Storage (1 Year) <i>CMDR-CLOUD-5GB</i> • DIN-rail Mounting Adapter <i>CMDR-D5-DINMT</i> | <ul style="list-style-type: none"> • KMC Commander BX <i>CMDR-D5CC-4-32-02</i> • Set of 2 Cellular Antennas <i>CMDR-LTE-ANT</i> • 3' Antenna Extension Cables <i>CMDR-ANT-EXT-3</i> • 100 CAPs License <i>Box: CMDR-CAPS-00100</i> <i>Cloud: CMDR-CLOUD-CAPS-00100</i> • 5 GB Cloud Storage (1 Year) <i>CMDR-CLOUD-5GB</i> • DIN-rail Mounting Adapter <i>CMDR-D5-DINMT</i> |

2. Additional CAP Licensing (optional)

Select the number of additional CAPs required depending on the project size.

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| 100 CAPs (<i>Box: CMDR-CAPS-00100 & Cloud: CMDR-CLOUD-CAPS-00100</i>) | 10,000 CAPs (<i>Box: CMDR-CAPS-0010K & Cloud: CMDR-CLOUD-CAPS-0010K</i>) |
| 500 CAPs (<i>Box: CMDR-CAPS-00500 & Cloud: CMDR-CLOUD-CAPS-00500</i>) | 50,000 CAPs (<i>Box: CMDR-CAPS-0050K & Cloud: CMDR-CLOUD-CAPS-0050K</i>) |
| 1,000 CAPs (<i>Box: CMDR-CAPS-0001K & Cloud: CMDR-CLOUD-CAPS-0001K</i>) | 100,000 CAPs (<i>Box: CMDR-CAPS-0100K & Cloud: CMDR-CLOUD-CAPS-0100K</i>) |
| 2,000 CAPs (<i>Box: CMDR-CAPS-0002K & Cloud: CMDR-CLOUD-CAPS-0002K</i>) | CAP licenses include 1 year of maintenance, updates, and security patches. |
| 5,000 CAPs (<i>Box: CMDR-CAPS-0005K & Cloud: CMDR-CLOUD-CAPS-0005K</i>) | Renewal licenses are available after 1 year to continue receiving these updates. |

3. Additional Cloud Storage Licensing (optional)

Select the additional amount of cloud storage required depending on the project size.

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| 5 GB Cloud Storage (1 Year) <i>CMDR-CLOUD-5GB</i> | 25 GB Cloud Storage (1 Year) <i>CMDR-CLOUD-25GB</i> | Self-Hosting or On-Premise Install? If you will not be utilizing KMC's cloud hosting, please contact KMC Customer Service to discuss your options. |
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4. Accessories (optional)

Select the Commander accessories required depending on the project scope.

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| DC Power Adapter (Recommended): +19 VDC, 130 W <i>CMDR-ADAPT-130W</i> | Cellular Antennas (Set of 2): Included in cellular base packages. <i>CMDR-LTE-ANT</i> |
| AC Transformer: 24 VAC, 96 VA | Antenna Extension Cables: 3' included in WiFi/Cellular packages Set of two 3 foot cables <i>CMDR-ANT-EXT-3</i> Set of two 15 foot cables <i>CMDR-ANT-EXT-15</i> |
| Single Hub <i>XEE-6111-100</i> Dual Hub <i>XEE-6112-100</i> | Single-port BACnet Router <i>BAC-5051E</i> |
| DIN Rail Mount: Included in all base packages. <i>CMDR-D5-DINMT</i> | EIA-485 Network Surge Suppressor <i>KMD-5567</i> |
| Wall/Panel Mount Adapter: Set of 2 brackets <i>CMDR-D5-WALLMT</i> | Ethernet Patch Cable 50 foot cable <i>HSO-9001</i> 50 foot cable, plenum rated <i>HSO-9011</i> 75 foot cable, plenum rated <i>HSO-9012</i> |
| Steel Control Enclosure: 16" x 18" x 6" <i>HCO-1034</i> | |
| WiFi Antennas (Set of 2): Included in WiFi base package. <i>CMDR-WIFI-ANT</i> | |

Frequently Asked Questions

When should I purchase the WiFi Base Package?

When installing Commander, WiFi is used to discover and setup the Commander BX hardware. When within 10 feet of the box, WiFi antennas are not required, and the Ethernet Base Package is sufficient. If you are using WiFi beyond installation to communicate with a device or connect to the internet, then WiFi antennas are required for a reliable connection, so the WiFi Base Package is required.

What is a Capacity Point (CAP)?

A Capacity Point, CAP, is a device or data point that is alarmed, scheduled, trended, or used in control logic. CAPs are continuously subscribed to in the Commander Software. Examples of a data point include, but are not limited to, tank level, temperature, air volume, CO2 level, door status (open/closed), pressure, and binary status (on/off). When one of these devices or points is continuously tracked, it counts as a CAP and is licensed as such.

What's the different between a Box CAP and a Cloud CAP?

The Commander platform tracks CAPs at the box level and cloud level. In rare occasions, installations will not require Cloud CAPs, so we have broken the two types into separate part numbers. When you purchase CAPs, always purchase the same number of Box CAPs and Cloud CAPs.

How many CAP licenses should I purchase?

When planning CAP licensing for a Commander installation, there are multiple factors to take into consideration. *First*, the Commander database setup will use 20 CAPs with each installation. *Second*, count the devices you will be pulling points from. Each device will use 1 CAP. *Third*, add up the points you will pull from each device. Each point will use 1 CAP. When you add these, order the annual CAP licenses (smallest increment is 100) to cover these points. For example: You have 20 sensors gathering 5 points each, the total annual CAP licenses needed would be 20 (database) + 20 (sensors) + 100 (sensor points) = 140 CAPs, and therefore you would purchase a license for 200 CAPs.

How do CAP licensing renewals work?

CAPs come with 1 year of software updates and security patches. After the first year, your box and cloud services will continue to track your data points, however you will no longer be eligible for software and security updates. If you decide later that you'd like to receive these updates again, you will need to pay the 1-year renewal fee as well as retroactive payments for previous updates.

Should I order 5 GB or 25 GB of Annual Cloud Storage licensing?

A 5 GB Annual Cloud license will be sufficient for most initial Commander BX installations. However, if you want to ensure you have enough storage, use this simple calculation: GBs Needed = (CAPs x Years)/2,000. For example: You're using 5,000 CAPs and you want to know how much storage you'll use over the next 4 years. (5,000 x 4)/2,000 = 10 GB. This means that a 5 GB annual subscription plan would be sufficient for two years before you need to upgrade. Please note, this calculation is an approximation depending on the type of data you're storing (numbers, text strings, photos, videos, etc.).

Can I use my own cloud service or self-host?

Yes. When doing so, you will still need Box and Cloud CAP licensing. However, you would not need Annual Cloud Storage licensing. If interested in self-hosting, please contact KMC Customer Service to learn more about your options.

Do I need to use a cloud service or can I keep it internal?

Foregoing cloud services altogether and only running the software on the Commander BX is referred to as "on-premise" hosting. While cloud access and functionality is a tremendous benefit, we understand this may not be desired in some applications. If interested in on-premise hosting, please contact KMC Customer Service to learn more about your options.

Do I need to provide my own SIM card with the Cellular models?

Yes, you must provide a SIM card and have an active account with your carrier of choice (Verizon or AT&T). A SIM card does not come with the unit. Contact your Verizon or AT&T representative to obtain a SIM card.

Where can I find more detailed information on Commander?

For additional details, see the data sheets for the KMC Commander BX and KMC Commander IoT Software and Cloud Services on KMCCommander.com.

