

Thank you for choosing the cnMatrix TX1K switch, a Cambium Networks communications device. Before you begin installing the switch, **verify** you have all the package contents available, and a PC with SSH client, such as PuTTY or OpenSSH SSH Client.

Package Contents

A rack mount kit for the TX1K switch models can be ordered as an optional accessory.

For a standard rack mount, use kit: MX-Rack-TX1K-0



For a DIN mount, use kit: MX-DIN-TX1K-0



cnMatrix TX1K Switch

TX1012-P-AC Model:



TX1012-P-DC Model:





Power Cord (separate accessory)



Product Overview

The cnMatrix TX1K switch comes in 2 SKUs to support AC or DC input power deployment scenarios.

Model Name / Part Number	Number of Ports	Power over Ethernet	Throughput	Switch
cnMatrix TX1012-P-AC	12	Yes	96 Gbps	
cnMatrix TX1012-P-DC	12	Yes	96 Gbps	

Powering Up

For the TX1012-P-AC model, connect the power cord to the power inlet, and plug the power cord into a wall socket.



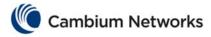


For the TX1012-P-DC model, connect the Red (+) and Black (-) terminals to the DC power supply. Warning: The TX1012-P-DC does not have an isolated input/output power supply. The switch must be powered with a positive polarity power source, otherwise damage to the switch will occur.





When the switch is booting up, the Power LED will be blinking green. When the switch is fully up and running, the Power LED will be solid green.



Default Configuration

When booting up for the first time the cnMatrix TX1K switch will try to acquire a dynamic IP address through DHCP. If a DHCP Server is not present on the network, the switch will fall back to **192.168.1.1** static IP address on the In-Band ports.



Note: DHCP is enabled by default on In Band Ports (VLAN1).

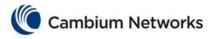
Default login information:

Username: admin

Password: admin

Configure Management PC

1	For Windows operating system, open the Control Panel window.	🕴 Ethernet 2 Properties 🛛 🗙
2	In the Control Panel window, select the View network status and tasks option. The Network and Sharing Center window is displayed.	Networking Connect using:
3	Click the Change adapter settings option. The Network Connections window is displayed.	Reatek PCIe GBE Family Controller Configure This connection uses the following items:
4	Double-click the interface connected to the switch. The interface Properties window is displayed.	
5	Double click on the Internet Protocol Version 4 (TCP/IPv4) option.	Internet Protocol Version 6 (TCP/IPv6) S Install Install Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. OK Cancel
6	The Internet Protocol Version 4 (TCP/IPv4) Properties is displayed. Select Use the following IP address. Set The IP address of the interface to 192.168.1.10 and the Subnet mask to 255.255.255.0	Internet Protocol Version 4 (TCP/IPv4) Properties X General You can get IP settings assigned automatically if your network supports this captopriate IP settings. Optian an IP address automatically Use the following IP address: IP address: 192.168.1.10 Sighet mask: 553.255.0 Default gateway: . Optian DNS server address automatically © Use the following DNS server addresses: Perferred DNS server: . Alternate DNS server: . Validate settings upon exit Adyanced OK Cancel

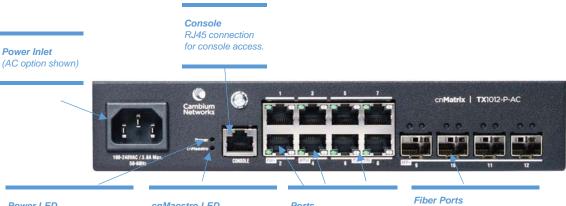


Logging in to the switch

1	Use PuTTY SSH client.	😹 PuTTY Configuratio	on ? X		
2	On the PuTTY Configuration	Category:			
2	window, in the Host Name field, enter 192.168.1.1 IP address	E Session	Basic options for your PuTTY session		
		Eugging ☐ Terminal — Keyboard — Bell	Specify the destination you want to connect to		
	and in the Port field, enter the 22 value.		Host Name (or IP address) Port 192.168.1.1 22		
		- Features Window - Appearance - Behaviour	Connection type: ○ Raw ○ Ielnet ○ Rlogin ● SSH ○ Serial		
3	Click Open. The login prompt is displayed.	Butty Configuration	? ×		
		Session	Basic options for your PuTTY session		
		Logging	Specify the destination you want to connect to		
		- Keyboard Bell	Host Name (or IP address) Port 192.168.1.1 22		
		− Features Window − Appearance − Behaviour − Translation Selection − Colours Connection − Data − Proxy − Telnet − Rlogin SSH − Serial	Ide. 100.111 Ide. 100.111 Connection type: Raw Raw Telnet Rlogin Ide. 100.111 Rlogin SSH Saved Sessions Ide. 100.111 Default Settings Load 10.2.108.25 Ide. 100.111 10.2.108.25 Save 10.2.108.28 Save 192.168.0.104 Delete Close window on exit: Only on clean exit Open Cancel		
4	In the cnMatrix login prompt enter the default username: admin				
5	In the Password prompt enter the default login password: admin				



Hardware Overview



Power LED Power LED is blinking green

- the switch is initializing.

Power LED is solid green – the switch is operational. **cnMaestro LED** Blinking blue: Connecting to cnMaestro. Solid blue: Connected to cnMaestro. Ports Data ports used for traffic forwarding and PoE. PoE+ ports support up to 30W. (Ports 1-2) 4PPoE ports support up to 90W. (Ports 3-4) PoE+/24V ports support up to 30W or Passive 24V. (Ports 5-8) *Fiber Ports* 1 Gig/10 Gig fiber ports (SFP+).

Specifications

cnMatrix Models	TX1012-P-AC	TX1012-P-DC
MTBF (hours, 25°C/60°C)	741,409 / 223,619	749,495 / 207,122
PoE Power budget	200W	170W @ 30V-65V input 120W @ 9V-29V input
Power supply	AC Input / Internal	DC Input / Internal
Weight	2.39 kg (5.27 lb)	2.17 kg (4.78 lb)
Dimensions	28 x 4.4 x 23 cm (11.0 x 1.75 x 9.06 in)	28 x 4.4 x 23 cm (11.0 x 1.75 x 9.06 in)
LEDs per port	Link/Activity, PoE	Link/Activity, PoE
Rack mountable	Yes 1U	Yes 1U
Operating Temperature	-30°C to + 60°C (-22°F to + 140°F)	-30°C to + 60°C (-22°F to + 140°F)
Operating humidity	+55° at 95% RH	+55° at 95% RH
Storage temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)



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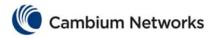
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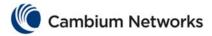
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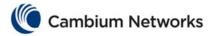
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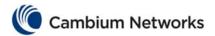
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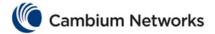
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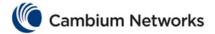
@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be> @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be> @author Paulo Barreto <paulo.barreto@terra.com.br>

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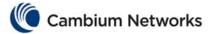
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Appendix A

GNU Lesser General Public Library version 2.1

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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• c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.



6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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• a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

• b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

• c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

• d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

• e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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• a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

• b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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one line to give the library's name and an idea of what it does.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice That's all there is to it!

Hardware Warranty

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Electrical Safety Information

This switch is designed with a power inlet with an integrated ground. A power cord from the switch shall be connected to a power outlet with ground connection.



To prevent loss of life or physical injury, observe the following safety guidelines. In no event shall Cambium Networks be liable for any injury or damage caused during the installation of the switch.

The equipment is designed for indoor installation and not intended to be connected to exposed (outside) networks.

Equipment intended for installation in Information Technology Equipment Rooms. "Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75."

To avoid a shock hazard:

- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect power cord to a properly wired and grounded electrical outlet.
- Connect to properly wired outlets any equipment that will be attached to this product.
- When possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.

There are no serviceable parts inside this equipment. Service should be provided only by a qualified service technician.

Le switch est conçu avec une prise de courant possédant une connexion à la terre. Un cordon d'alimentation devra être connecté à la prise de courant possédant une connexion à la terre.

L'équipement est prévu pour des installations en intérieur et n'est pas prévu pour être installé à l'extérieur.

CAUTION: The SFP/SFP+ ports should use UL listed Optical Transceiver product, Rated Laser Class I. 3.3Vdc.

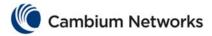
Si le transceiveur optique n'est pas livré avec l'appareil, le manuel d'utilisation doit comporter la description cidessous ou son équivalent :« Ce produit est destiné à être utilisé avec un transceiveur optique homologué UL,tension DC3.3V, classe laser I.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.



Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Modifications: Any modifications made to this device that are not approved by Sun Microsystems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害 を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう 要求されることがあります。 VCCI-A

RoHS/WEEE Compliance

Caring for the Environment: RoHS/WEEE

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Europe- EU Declaration of Conformity

Hereby, CAMBIUM NETWORKS, Inc. declares that the equipment type [EX2010, EX2010-P, EX2028, EX2028-P, EX2052, EX2052-P, EX2052R-P, EX2016M-P] is in compliance with Directive 2014/30/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.cambiumnetworks.com/

Online Resources

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