

Let's experience the buying process:

Hm... nice SMB offer.... ISR 1000 looks reasonable....

The screenshot shows a web browser window displaying the Cisco website. The browser's address bar shows the URL <https://www.cisco.com/c/en/us/products/routers/index.html#~products>. The website's navigation menu includes 'Features', 'Products', 'Software', 'Solutions', 'Services', 'Resources', and 'For Partners'. A 'Contact Cisco' button is visible in the top right corner.

The main content area is divided into five columns, each representing a different router category:

- Service provider:** Address today's needs and scale for future ones with strong ROI. Products listed: NCS 6000 Series, NCS 5500 Series, ASR 9000 Series.
- Industrial:** Deliver enterprise-class features in rugged and harsh environments. Products listed: IR1101 ISR Rugged (new), 800 Series Industrial ISR, 1000 Series CGR, 500 Series WPAN IR.
- Virtual:** Get multitenant network services for public, private, or provider-hosted clouds. Products listed: IOS XRv 9000, CSR 1000v, Meraki vMX100.
- Small-business:** Get advanced capabilities and security features at affordable prices. Products listed: ISR 1000 Series, ISR 900 Series (new), Meraki MX Security Appliances, Small Business RV Series.

Below the category grid is a promotional banner for Cisco DNA software. It features a screenshot of the Cisco DNA interface and the text: "Cisco DNA software fuels the intent-based network". Below this, it states: "Simple, flexible software subscription suites help you achieve the latest software-defined WAN innovations and provide centralized management with security, application-aware policies, segmentation, and optimization for cloud connectivity."

The Windows taskbar at the bottom shows the search bar with the text "Type here to search", several application icons (including Edge, Chrome, and Word), and the system tray with the date and time: "4:34 PM 6/30/2019".

I need PoE...

Find the right ISR 1000

The 1000 Series offers next-generation connectivity, software-defined WAN, and integrated security. Get routing, switching, and wireless in one device.

[Compare models](#)

Model	Key Features
ISR 1111X	<ul style="list-style-type: none">Cisco SD-WAN SecurityDual Ethernet WAN8 LAN ports8 GB DRAM and 8 GB FlashPoE
ISR 111x	<ul style="list-style-type: none">Cisco SD-WAN optionDual Ethernet WAN4-8 LAN ports4 GB DRAM and 4 GB FlashPoE
ISR 1101	<ul style="list-style-type: none">Compact form factorEthernet WAN4 LAN ports4 GB DRAM and 4 GB FlashPluggable LTE option
ISR 1109	<ul style="list-style-type: none">Extended temperature supportEthernet WAN2-4 LAN ports4 GB DRAM and 4 GB FlashDual pluggable LTE option

Cisco DNA software fuels the intent-based network

Simple, flexible software subscription suites help you achieve the latest software-defined WAN innovations and provide centralized management with security, application aware policies, segmentation, and optimization for cloud

Good... PoE exists....let's compare models

[Cisco 1100 ISR configuration g...](#) | [Cisco 1100 Series Software Con...](#) | [Compare Models - Cisco](#) | +

<https://www.cisco.com/c/en/us/products/routers/1000-series-integrated-services-routers> 90% Search

<https://10.66.0.130/> Log in - VMware ESXi Apple Proprietary SSD...

6 products | [Export to Excel](#)

1111X-8P	1100-8P	1100-4P	1101-4P	1109-4P	1109-2P
Expand all					
WAN					
Wireless WAN					
LAN					
Ethernet 8 GE	Ethernet 8 GE	Ethernet 4 GE	Ethernet 4 GE	Ethernet 4 GE	Ethernet 2 GE
Voice -	Voice -	Voice -	Voice -	Voice -	Voice -
VLAN 32 VLANs	VLAN 32 VLANs	VLAN 32 VLANs	VLAN 32 VLANs	VLAN 32 VLANs	VLAN 32 VLANs
PoE power budget 80W	PoE power budget 80W	PoE power budget 60W	PoE power budget -	PoE power budget -	PoE power budget -
PoE ports 4 x PoE or 2 x PoE+	PoE ports 4 x PoE or 2 x PoE+	PoE ports 2 x PoE or 1 x PoE+	PoE ports -	PoE ports -	PoE ports -
Wireless LAN					

Type here to search | Taskbar: File Explorer, Mail, Edge, Firefox, Chrome, OneDrive, Print, Task View, Word | System tray: Network, Volume, Power, ENG, 4:49 PM, 6/30/2019

Perfect!... But let's look to the data sheet to make sure we pick the right model

Products & Services / Routers / Branch Routers / Cisco 1000 Series Integrated Services Routers / Data Sheets /

Cisco 1000 Series Integrated Services Routers Data Sheet

Updated: April 26, 2019 · Document ID: 1507268035967100 [Contact Cisco](#)

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Primary Features and Benefits

Platform Architecture and Capabilities

Product Specifications

System Specifications

Cisco IOS Software Licensing and Packaging

For More Information

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Document History

Cisco® 1100 Series Integrated Services Routers (ISRs) with Cisco IOS® XE Software combine Internet access, comprehensive security, and wireless services (LTE Advanced 3.0 wireless WAN and 802.11ac wireless LAN) in a single, high-performance device. The routers are easy to deploy and manage, with cutting-edge, scalable,

Wow.... Very detailed compared with any other vendor I worked with. I like this.

Let's check product specs for PoE

- Product Specifications
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Model	WAN				Wi-Fi	LAN switch			Integrated USB 3.0 console	Pluggable
	GE	GE/SFP combo	ADSL2/DSL2 + or G.FAST or G.SHDSL	LTE Advanced (CAT6)	802.11ac	GE	PoE or PoE+			
C1101-4P	1	NA	NA	NA	NA	4	NA	NA	Yes	NA
C1109-2PLTEVZ	1	NA	NA	NA	NA	2	NA	NA	Yes	Embedded builtin same CAT4 LTE technology as P-LTE-VZ
C1109-2PLTEUS	1	NA	NA	NA	NA	2	NA	NA	Yes	Embedded builtin same CAT4 LTE technology as P-LTE-US
C1109-2PLTEGB	1	NA	NA	NA	NA	2	NA	NA	Yes	Embedded builtin same CAT4 LTE technology

The screenshot shows a web browser window displaying the Cisco product page for the 1000 Series Integrated Services Routers. The browser's address bar shows the URL: <https://www.cisco.com/c/en/us/products/collateral/routers/1000-series-integrated-s>. The page content includes a navigation sidebar on the left and a table of specifications for various router models.

The navigation sidebar is open to "Product Specifications" and includes the following links:

- Product Specifications
- Table of Contents
- Primary Features and Benefits
- Platform Architecture and Capabilities
- Product Specifications
- System Specifications
- Cisco IOS Software Licensing and Packa...
- For More Information
- Cisco and Partner Services
- Ordering Information
- Document History

The table of specifications lists the following models and their key features:

Model	Series	Form Factor	Power	Ports	Features	Memory	Flash	Serial	USB	Other	Notes
C1109-4PLTE2P	1	NA	NA	Yes with Pluggable Technology	NA	4	NA	NA	Yes	Yes (All), Dual Pluggables, Single P-1T Serial in Slot 0	LTE technology as P-LTE-GB
C1111-8P (C1111X-8P with 8 GB memory and flash for SD-WAN Advanced Security support)	1	1	NA	NA	NA	8	4	2	Yes	NA	
C1111-4P	1	1	NA	NA	NA	4	2	1	Yes	NA	
C1112-8P	NA	1	1 G.FAST (Annex B)	NA	NA	8	4	2	Yes	NA	
C1113-8P	NA	1	1 G.FAST (Annex A)	NA	NA	8	4	2	Yes	NA	
C1113-8PM	NA	1	1 G.FAST (Annex M)	NA	NA	8	4	2	Yes	NA	

C1111-8P it's perfect for me. It is a basic dual wan router with POE.

But let's check the system specs...

The screenshot shows a web browser window displaying the Cisco product page for the Cisco 1000 Series Integrated Services Router. The browser's address bar shows the URL: <https://www.cisco.com/c/en/us/products/collateral/routers/1000-series-integrated-s>. The page content includes a navigation menu on the left and a main content area with the following specifications:

	CAB-SS-530AMT	EIA/TIA-530A DTE	10 ft (3m)	Male
				Male
				Male
Inline PoE	<ul style="list-style-type: none"> Optional internal adapter for inline PoE on 4 switch ports for IP phones or external wireless access points; 802.3af-compliant PoE or 802.3at-compliant PoE+. 			
External power supply	<p>Product power specifications:</p> <p>C111X, C1120 and C1160 Models</p> <ul style="list-style-type: none"> AC input voltage: Universal 100 to 240 VAC. Frequency: 50 to 60 Hz. Maximum output power: 66W (default). Output voltages: 12 VDC. Optional PoE and PoE+: <ul style="list-style-type: none"> Single 150W power supply required for Cisco 1100-8P series router Single 115W power supply required for Cisco 1100-4P series router External output voltage: 48 VDC. <p>C1101-4PLTEPWX and C1109-4PLTE2PWX Models:</p> <ul style="list-style-type: none"> AC input voltage: Universal 100 to 240 VAC. Frequency: 50 to 60 Hz. Maximum output power: 66W (default iTemp for C1109-4PLTE2PWX Models). Output voltages: 12 VDC. <p>C1101-4P, C1101-4PLTEP, C1109-2PLTE, and C1109-4PLTE2P Models:</p> <ul style="list-style-type: none"> AC input voltage: Universal 100 to 240 VAC. Frequency: 50 to 60 Hz. Maximum output power: 30W (default iTemp for Models). Output voltages: 12 VDC. 			
USB 3.0	<ul style="list-style-type: none"> USB devices supported: <ul style="list-style-type: none"> USB eTokens and USB flash memory Devices USB 3.0 supports to be connected externally. View the USB Device Support Data Sheet. 			
LEDs	<ul style="list-style-type: none"> WWAN (green/amber). 			

My first mistake...I didn't understand what some smart people at Cisco tried to explain on page 31 of their detailed data sheet 😞. If you cannot either you will soon.

So... I bought the device and...

```
COM4 - PuTTY
port-security      Show secure port information
power              Power
ppp                PPP parameters and statistics
pppatm             PPP over ATM
pppoe              PPPoE information
pre                Show PRE (Policy Rule Engine) Information
privilege          Show current privilege level
processes          Active process statistics
protocols          Active network routing protocols
qbm                QoS Bandwidth Manager information

Router#show power
Main PSU :
  Configured Mode : N/A
  Current runtime state same : N/A
  PowerSupplySource : External PS
POE Module :
  Configured Mode : N/A
  Current runtime state same : N/A
  Total power available : 0 Watts
Router#show inven
Router#show inventory
+++++
INFO: Please use "show license UDI" to get serial number for licensing.
+++++

NAME: "Chassis", DESCR: "Cisco C1111-8P Chassis"
PID: C1111-8P      , VID: V01  , SN: FCZ231292XE

NAME: "Power Supply Module 0", DESCR: "External Power Supply Module"
PID: FWR-12V      , VID: V01  , SN: JAB0929092D

NAME: "module 0", DESCR: "Cisco C1111-8P Built-In NIM controller"
PID: C1111-8P      , VID:      , SN:

NAME: "NIM subslot 0/0", DESCR: "Front Panel 2 port Gigabitethernet Module"
PID: C1111-2x1GE   , VID: V01  , SN:

NAME: "NIM subslot 0/1", DESCR: "C1111-ES-8"
PID: C1111-ES-8    , VID: V01  , SN:

NAME: "module R0", DESCR: "Cisco C1111-8P Route Processor"
PID: C1111-8P      , VID: V01  , SN: FOC231048Y1

NAME: "module F0", DESCR: "Cisco C1111-8P Forwarding Processor"
PID: C1111-8P      , VID:      , SN:

Router#
```

Surprise! No PoE...

And then several other surprises...no support available, product under Enterprise support not SMB as promoted....

But what really pissed me of is that this is not unique... there are many complains on CISCO forums about this... They could add a * saying. PoE module have to be ordered or something. It is still not clear to me how to buy the a PoE version, but I do not want to invest more time in this.

The screenshot shows a forum post by Malyukov Maxim, a beginner, dated 08-29-2018. The post title is "Cisco c1111-8P and PoE." and the content includes a table of specifications and a console output snippet. The table highlights that the c1111-8P model has 4 PoE ports and 2 PoE+ ports. The console output shows that inline power is not supported on gigabitEthernet interfaces 0/1/0 through 0/1/5.

Model

Model	WAN				Wi-Fi	LAN switch		Integrated USB 3.0 AUX/console	Pluggable
	GE	GE/SFP combo	ADSL2/VDLSL2+ or G.FAST	LTE Advanced (CAT6)	802.11ac	GE	PoE or PoE+		
C1101-4P	1	NA	NA	NA	NA	4	NA NA	Yes (No AUX)	NA
C1111-8P	1	1	NA	NA	NA	8	4 2	Yes	NA

But in console:

```
Router#show power inline gigabitEthernet 0/1/0 detail
Interface Gi0/1/0: inline power not supported
Router#show power inline gigabitEthernet 0/1/1 detail
Interface Gi0/1/1: inline power not supported
Router#show power inline gigabitEthernet 0/1/2 detail
Interface Gi0/1/2: inline power not supported
Router#show power inline gigabitEthernet 0/1/3 detail
Interface Gi0/1/3: inline power not supported
Router#show power inline gigabitEthernet 0/1/4 detail
Interface Gi0/1/4: inline power not supported
Router#show power inline gigabitEthernet 0/1/5 detail
```