

Ericsson Product Discontinuation Announcement

March 23, 2009

ASX200BX Product Line and Platform
TNX210 Product Line and Platform
ASX1000 Product Line and Platform
ASX1200 Product Line and Platform
TNX1100 Product Line and Platform
BXR400 Product Line and Platform
BXR1600 Product Line and Platform
ASX/TNX/BXR Network Modules Cards and Control Processors
ASX4000 Product Line and Platform
ASX4000M Product Line and Platform
ASX4000/4000M Port Cards and Control Processors
ESR5000/ESR6000 Product Line and Platform
BXR48000 Product Line and Platform
BXR48000 Port Cards and Control Processors
HE155 & HE622 Network Interface Cards
ForeThought Software
ForeThought Plus Software
ServiceOn Data Network Management Software
Service Offerings

Contents

1	Summary of Announcement.....	3
2	Migration Strategy	4
3	Effective Dates for ASX, HE, TNX, and BXR400/1600/48000.....	4
4	Effective Dates for ESR5000 and ESR6000	4
5	Effective Dates for SUPP-S-PS/PO Support Offers	5
6	Software with Sustaining Engineering Support	5
7	Key Process Changes for Customers	6
7.1	Order Processing and Payment Remittance	6
7.2	Orders Processed through Ericsson Federal or Market Units outside of the United States	7
7.3	Return Material Authorization (RMA).....	7
8	Training Availability	7
9	Service and Warranty	7
9.1	Service Offering	7
9.2	Warranty Information	10
9.3	TACtics Online.....	10
10	Frequently Asked Questions	11
10.1	General	11
10.2	Software	12
10.3	Hardware	12
10.4	Ordering, Supply and Operations	12
10.5	Customer Support	13
11	Contacts	14
12	Glossary of Terms	16
13	Product Listing	17

1 Summary of Announcement

The identified products and services will no longer be for sale due to rapidly declining sales volumes and increasing challenges in maintaining these platforms as they age. This situation is exacerbated by a decrease in qualified suppliers providing the necessary components to ensure high quality products. In essence, as the number of components that require requalification increases, the risk as well as cost of maintaining the products has also increased to an unsustainable point.

On November 20, 2008 it was announced that the Ericsson office in Warrendale, Pennsylvania would be closed. This office is the only manufacturing facility for the ASX, TNX, and BXR400/1600 and BXR48000 multiservice switching products. While the site closure does not in itself necessitate an end of sale action, the combination of component availability, expert supply personnel and a declining market does.

As of March 23, 2009 Ericsson announces the End of Sale and Last Time Buy of the following multiservice switching platforms and their associated network modules, port cards, switch control modules, control software and other associated orderable items. This announcement is intended to encompass the entire line of orderable parts for these platforms. The affected platforms are:

ASX200BX, TNX210, ASX1000, ASX1200, TNX1100, BXR400, BXR1600, ASX4000, ASX4000M and BXR48000 multiservice switches, the associated ForeThought and ForeThought Plus control software, ServiceOn Data network management software, the HE155 and HE622 Network Interface Cards, and associated service offerings. This announcement also includes all customer-specific bundles that include these products.

This announcement also **includes** the ESR5000 and ESR6000 products.

The BXR1000 and BXR5000 products **are not part of this announcement** and won't be impacted by this announcement. The ViPr video conferencing system is also not part of this announcement.

All customers must submit their last time buy for End of Sale products by December 31, 2009. All orders must be for delivery no later than March 31, 2010.

Fulfillment of orders will be based on available supply and will be filled while supplies last. Customers are encouraged to submit orders early in order to maximize clarity of available supply for both Ericsson and the customer. All orders placed from this date forward cannot be cancelled.

All of the End of Sale products will reach end of software and hardware support on December 31, 2012 unless other contractual arrangements exist.

2 Migration Strategy

Please work with your account manager to discuss your unique network needs and the options that Ericsson has available for you. If you are uncertain who your account manager is please reference the chart in section 11.

3 Effective Dates for ASX, HE, TNX, and BXR400/1600/48000

End of Sale Notification	March 23, 2009
Last Time Buy (while supplies last)	December 31, 2009
Last delivery date for Last Time Buy orders	March 31, 2010
End of Sustaining Engineering Support	December 31, 2012
End of Hardware Support (RMA)	December 31, 2012

4 Effective Dates for ESR5000 and ESR6000

End of Sale Notification	March 23, 2009
Last Time Buy (while supplies last)	May 31, 2009
Last delivery date for Last Time Buy orders	July 31, 2009
End of Sustaining Engineering Support	December 31, 2009
End of Hardware Support (RMA)	December 31, 2009

5 Effective Dates for SUPP-S-PS/PO Support Offers

SUPP-S-PS is a support level that affords parts and a service engineer onsite in 4 (four) hours. SUPP-S-PO affords onsite parts in a 4 (four) hour timeframe. These offers are only available in the U.S.

End of Sale Notification	March 23, 2009
Last Time Buy	June 30, 2009
End Date for Support Contracts	June 30, 2010
End of Sustaining Engineering Support	June 30, 2010
End of Hardware Support (RMA)	June 30, 2010

6 Software with Sustaining Engineering Support

The following software will be supported by sustaining engineering per the schedule listed in section 3 of this document.

Software	Platform Supported
ForeThought 9.3	ASX200BX TNX210 ASX1000 ASX1200 TNX1100 ASX4000 ASX4000M
ForeThought+ 10.2.1	BXR400 BXR1600
ForeThought 2.0.3	BXR48000
ForeThought 6.0.1	HE155/622
ServiceOn Data 3.3 and 3.4	Network Management

7 Key Process Changes for Customers

7.1 Order Processing and Payment Remittance

7.1.1 Orders Processed in the United States

If you traditionally place your orders directly with the Ericsson office in Warrendale, PA, after April 1, 2009 please use the contact information below to place an order.

Ericsson Inc.
6300 Legacy Drive
Plano, TX 75024

U.S. orders should be sent to:
Email address: order.desk@ericsson.com (Preferable method)
Fax number: 972-583-1855
Contact person: Robert Monroe
Phone number: 972-583-7533

7.1.2 Remit to Address for Orders Processed in the United States

PO Box 677504
Dallas, TX 75267-7504

Wire to:
Citibank NA
New York, NY
ABA021000089
Ericsson Inc. Acct# 30509027

7.1.3 Shipment Origination Changes

If you currently have a routing guide or collect carrier account number, please be sure the carrier services the Dallas, TX origination point. Attach any new shipment information when you submit a purchase order, but please ensure that your shipper supports Dallas, TX because this will be the new point of origination.

7.2 Orders Processed through Ericsson Federal or Market Units outside of the United States

Continue to place your orders through your Ericsson account manager. If you do not already have an Ericsson account manager, please use the contact listing later in this document to contact your local Ericsson office to place an order.

7.3 Return Material Authorization (RMA)

The location and process for RMA will change in the future. As new RMAs are processed the changes will be communicated to you.

8 Training Availability

As of this announcement, several courses have been listed with Last Time Buy status. See the product listing at the end of this document for more details. The last date to request training will be September 30, 2009, and the delivery of the training must occur before December 31, 2009.

9 Service and Warranty

Ericsson will continue to honor previously executed enhanced warranty, post-warranty and service contracts in accordance with the terms of those agreements. Ericsson is not responsible for any maintenance commitments or product support made by value added resellers or other service providers.

Any Ericsson obligations stemming from service contracts with Lifetime support terms will cease on December 31, 2012, concurrent with the End of Sustaining Engineering Support and End of Hardware Support (RMA).

9.1 Service Offering

Arrangements are currently under way to transfer the knowledge from the Ericsson Warrendale location. Primary support functions are part of our business continuity plan. Two broad offerings of Essential Replace and Essential Repair are available and are listed later in this section. No other service offerings will be orderable except those described in this document.

For all product referenced in this End of Sale announcement, customers may secure support contracts with service offerings outlined in this section. The end dates of these support contracts can extend to the stated End of Sustaining Engineering Support and End of Hardware Support (RMA) dates. This is possible only if the contracts are secured prior to the Last Time Buy date.

9.1.1 Essential Replace

Essential Replace is for customers who want a combination of software support, Helpdesk access, online support, and advanced replacement logistics options. Because of the nature of logistics support, Ericsson offers this in three classes of service: next-business-day dispatch of parts, four-hour onsite parts, or four-hour onsite parts and service.

9.1.2 Essential Repair

Essential Repair is for customers who want their equipment to be repaired and returned instead of receiving advance replacement parts. Customers typically have an in-house support organization to respond immediately with their own spare parts and forward the defective items to Ericsson for repair. As part of Essential Repair, Ericsson provides return-to-factory options that include ten-day repair or expedited three-day repair.

Essential Support Program	Essential Replace			Essential Repair	
	SUPP-S-A	*SUPP-S-PO	*SUPP-S-PS	SUPP-S-3	SUPP-S-10
Next Business Day dispatch of parts	End of Support Dec. 31, 2012				
Four hour parts onsite		End of Support June 30, 2010			
Four hour parts and service onsite			End of Support June 30, 2010		
Three business day repair				End of Support Dec. 31, 2012	
Ten business day repair					End of Support Dec. 31, 2012
Included features SUPP-S (baseline features)					
24x7 Helpdesk access	End of Support Dec 31, 2012				
Software support	End of Support Dec 31, 2012				

9.1.3 SUPP-S

SUPP-S is the baseline service level designed for customers who purchase Ericsson network applications. This offer provides customers with the necessary software support to ensure their applications are maintained at the most current levels through 24x7 access helpdesk expertise and software maintenance.

Customers may add additional (repair or replacement) hardware services on top of the baseline services.

9.1.4 Essential Replace

- 10x5 next-business-day parts
- 24x7 four-hour parts
- 24x7 four-hour parts and service

9.1.5 Essential Repair

- Ten-business-day return to factory
- Three-business-day return to factory

9.2 Warranty Information

The Ericsson hardware included in this announcement carries a one-year warranty beginning on the date of the original shipment from Ericsson to the customer. Any product received by an Ericsson customer and found to be defective during the warranty period will be repaired or replaced by Ericsson with a ten (10) business days (in factory) return policy. This warranty applies for the most current versions of the Ericsson hardware product.

Ericsson software included in this announcement carries a 90-day warranty, during which customers will receive all new releases or feature enhancements to base software. Customers under standard warranty will receive an acknowledgment within one (1) business day.

9.3 TACtics Online

In our continuing effort to align Ericsson tools and processes, TACtics Online (<http://tactics.ericsson.com/services/>) will be shut down on April 10, 2009. Some TACtics functionality will be migrated to other Ericsson systems, but some functions may be discontinued.

If there is content that you need from TACtics Online, you will have until 5:00 P.M. EDT on April 10, 2009 to download it yourself. After that date, you will be able to get the same information by sending an email or calling an Ericsson Customer Support Engineer who will retrieve the information for you.

If you have any questions, please contact your Ericsson account manager or call an Ericsson Customer Support Engineer at 1-800-671-3673 or +1-724-742-6999 or datanetworks.support@ericsson.com.

10 Frequently Asked Questions

10.1 General

10.1.1 **Where can I find additional product information?**

You will be able to find data sheets and other promotional materials at www.ericsson.com for a limited time.

For pre-sales support, please contact your account manager or your local Ericsson location. For hardware and software support, continue to call or email the same way you do today.

As previously described in this document, as of April 10, 2009 TACTics Online will no longer be available.

If I don't know who my reseller or account manager is, who do I contact?

See the contacts chart later in this document.

If the Warrendale location is closing, do I need a new phone number for customer support?

Contact procedures for customer support will not change. Please continue to use the phone numbers or email you have always used to reach customer support.

10.2 Software

10.2.1 ForeThought, ForeThought Plus and ServiceOn Data

What versions of software will be supported?

See the chart in section 6 of this document. Software is provided if you have a valid support contract.

Will there be any future software releases?

As of this end of sale announcement, there will be no new features developed. The only software releases will be necessary fixes/patches.

Will the time between software patches increase?

Software will be updated on an as-needed basis.

10.3 Hardware

What support will exist for the hardware in my network?

Please refer to the chart at the end of this document, which lists the support status of all products affected by this announcement.

10.4 Ordering, Supply and Operations

Will the process to place orders change?

Yes, if you traditionally place your orders directly with the Ericsson office in Warrendale, PA, after April 1, 2009 please use the contact information below to place an order.

*Ericsson Inc.
6300 Legacy Drive
Plano, TX 75024*

*Domestic orders should be sent to:
Email address: **order.desk@ericsson.com** (Preferable method)
Fax number: 972-583-1855
Contact person: Robert Monroe
Phone number: 972-583-7533*

Should U.S. customers who have paid directly to Ericsson Warrendale in the past submit payments to a new location?

Yes, the information is included below.

Remit to address:

*P.O. Box 677504
Dallas, TX 75267-7504*

*Wire to:
Citibank NA
New York, NY
ABA021000089
Ericsson Inc. Acct# 30509027*

Can I order products with specific software and hardware versions preconfigured in the chassis?

It won't be possible to do this as of the date of this announcement. All programmable hardware will ship with the latest version of code. All parts will be shipped independently in separate packing material.

Can I specify which shipper you use for my orders?

Yes, this will be supported. If you currently have a routing guide or collect carrier account number, please be sure the carrier services the Dallas, TX origination point. Attach any new shipment information when you submit a purchase order, but please ensure that your shipper supports Dallas, TX because this will be the new point of origination.

10.5 Customer Support

What is the support plan following this announcement?

See section 9 of this document. Existing support contracts will remain in place.

When can I no longer RMA a product?

An RMA can be processed if the part is under a valid support contract prior to the termination date of the contract. Renewal contracts cannot exceed a termination date of December 31, 2012.

If I have just purchased one of these announced products but declined the support what are my support options?

You will receive the benefits of our standard warranty. See the Warranty section of this document for more information.

10.5.1 TACtics Online

Will I still have access to TACtics online after this announcement?

As of April 10, 2009 TACtics online will no longer be available. When you access the page <http://tactics.ericsson.com/services>, you will be directed to contact a live support person to answer the questions and retrieve the information you require.

11 Contacts

Country	Phone Number	Website
Argentina	+54 11 4315 5500	www.ericsson.com/ericsson/worldwide/argentina.shtml
Australia	+61 3 9301 10 00	www.ericsson.com/au
Austria	+43 1 811 00- 0	www.ericsson.com/at
Bahrain	+973 17 584 500	
Bangladesh	+880 2 8823864 / 988 6641	www.ericsson.com/bd
Belgium	+32 2 745 12 11	
Bolivia	+591 3 3426060	www.ericsson.com/ericsson/worldwide/bolivia.shtml
Brazil	+591 3 3426060	www.ericsson.com/ericsson/worldwide/brasil.shtml
Bulgaria	+359 2 9651888	
Cambodia	+855 23 986647-9	http://www.ericsson.com/ericsson/worldwide/cambodia.shtml
Canada	+1 905 206 7920	www.ericsson.com/ca
Chile	+56 2 372 5000	www.ericsson.com/ericsson/worldwide/chile.shtml
China	+86 10 8476 9000	www.ericsson.com/cn
Columbia	+57 1 623 90 00	www.ericsson.com/ericsson/worldwide/columbia.shtml
Costa Rica	+506 519-0800	www.ericsson.com/ericsson/worldwide/costarica.shtml
Czech Republic	+420 224 000 111	www.ericsson.com/cz
Denmark	+45 33 88 33 88	www.ericsson.com/dk
Dominican Republic	+1 809 683-7701	www.ericsson.com/ericsson/worldwide/dominican_republic.shtml
Ecuador	+593 2 2997 700	www.ericsson.com/ericsson/worldwide/ecuador.shtml
Egypt	+ 202 536 9100	www.ericsson.com/
El Salvador	+503 210-5200	www.ericsson.com/ericsson/worldwide/elsalvador.shtml
Estonia	+372 6 500 900	www.ericsson.com/ee
Finland	+358 (0)9 2991	www.ericsson.com/fi
France	+ 33 1 69 93 70 00	www.ericsson.com/fr
Germany	+49 211 534 0	www.ericsson.com/de
Greece	+30 210 6695100	www.ericsson.com/gr
Guatemala	+502 2365-2900	www.ericsson.com/ericsson/worldwide/guatemala.shtml
Haiti	+509 7011 063	www.ericsson.com/ericsson/worldwide/haiti.shtml

Country	Phone Number	Website
Honduras	+504 240-3000	www.ericsson.com/ericsson/worldwide/honduras.shtml
Hungary	+36 1 437 71 00	www.ericsson.com/hu
Iceland	+45 33 88 33 88	
India	+91 124 2560808/4080808	www.ericsson.com/in
Indonesia	+62 21 769 2222	www.ericsson.com/id
Ireland	+353 1 207 20 00	www.ericsson.com/ie
Israel	+972 3 900 60 00	
Italy	+39 06 725 81	www.ericsson.com/it
Jamaica	+1 876 960-0320	www.ericsson.com/ericsson/worldwide/jamaica.shtml
Japan	81338302200	www.ericsson.com/jp
Jordan	+962 6 554 0787	
Korea	+82 2 3458 0000	www.ericsson.com/kr
Kuwait	+965 246 54 65	
Latvia	+67 09 00 00	www.ericsson.com/lv
Lithuania	+370 5 27 38800	www.ericsson.com/lt
Macedonia	+389 2 121 127	www.ericsson.com/mk
Malaysia	+60 3 8314 6000	www.ericsson.com/my
Mexico	+52 55 1103-0000	www.ericsson.com/ericsson/worldwide/mexico.shtml
Morocco	+212 37 57 99 00	
Myanmar		
Netherlands	+31 161 24 9911	www.ericsson.com/
New Zealand	+64 4 460 10 00	www.ericsson.com/nz
Nicaragua	+505 255-7033	www.ericsson.com/ericsson/worldwide/nicaragua.shtml
Nigeria	+234 1 461 6000	
Norway	+47 67 25 00 00	www.ericsson.com/no
Pakistan		
Panama	+507 206-5100	www.ericsson.com/ericsson/worldwide/panama.shtml
Paraguay	+595 21 622050	www.ericsson.com/ericsson/worldwide/paraguay.shtml
Peru	+51 1 215 6100	www.ericsson.com/ericsson/worldwide/peru.shtml
Philippines	+63 2 7891800	www.ericsson.com/ph/index.shtml
Poland	+48 22 691 60 00	www.ericsson.com/pl
Portugal	+351 21 446 6000	www.ericsson.com/pt
Puerto Rico	+1 787 771-1700	www.ericsson.com/ericsson/worldwide/puertorico.shtml
Qatar	+974 4 365 650	
Romania	+40 21 40 10 319	www.ericsson.com/ro
Russia	+7 495 647 6211	www.ericsson.com/ru
Saudi Arabia	+966 1 2279200	
Singapore	+65 6880 86 00	www.ericsson.com/sg
Slovakia	+421 2 49 499 111	www.ericsson.com/sk
Slovenia	+386 1 236 30 10	
South Africa	+27 11 844 2000	
Spain	+34 91 339 10 00	www.ericsson.com/es
Sri Lanka	+94 11 4310200	www.ericsson.com/lk
Sweden	+46 10 719 00 00	www.ericsson.com/
Switzerland	+41 31 998 35 00	www.ericsson.com/ch
Taiwan	+886 2 2769 55 00	www.ericsson.com/tw

Country	Phone Number	Website
Thailand	+66 2 299 70 00	www.ericsson.com/ericsson/worldwide/thailand.shtml
Turkey	+90 (0212) 286 86 86	www.ericsson.com/tr
Ukraine	+380 44 537 4000	www.ericsson.com/ua
United Arab Emirates	+971 4 3661 400	
United Kingdom	+44 1256 70 78 74	www.ericsson.com/uk
United States	+1 972 583 0000	www.ericsson.com
Uruguay	+598 2 294 6060	www.ericsson.com/ericsson/worldwide/uruguay.shtml
Venezuela	+58 212 273 0200	www.ericsson.com/ericsson/worldwide/venezuela.shtml
Vietnam	+84 4 857 5101	www.ericsson.com/vn

12 Glossary of Terms

End of Sale Notification: The date that Ericsson announces the End of Sale for the specified products.

Last Time Buy: The period of time from date of End of Sale Notification to the last day that a customer may purchase the referenced products.

End of Sustaining Engineering Support: The last day Ericsson will create fixes for critical bugs in referenced products.

End of Hardware Support (RMA): The last day maintenance is provided for referenced products.

RMA: Return Material Authorization is a transaction whereby the recipient of a product arranges to return defective goods to the supplier to have the product repaired or replaced.

13 Product Listing

All of the products in the chart below have the following announcement dates:

End of Sale Notification	March 23, 2009
Last Time Buy (while supplies last)	December 31, 2009
Last delivery date for Last Time Buy orders	March 31, 2010
End of Sustaining Engineering Support	December 31, 2012
End of Hardware Support (RMA)	December 31, 2012

ASX, TNX, BXR400/1600/48000 Hardware, Software and Licenses	
<i>Product Number</i>	<i>Description</i>
Switches (ASX200, ASX1000, ASX1200, TNX210, TNX1100)	
ASX-1000/10AC	ASX-1000 10 Gbps Backbone ATM Switch; base configuration includes 10 Gbps ATM switching fabric, 16 netmod slots, one AC power supply, common equipment card, and four 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1000/10DC	ASX-1000 10 Gbps Backbone ATM Switch; base configuration includes 10 Gbps ATM switching fabric, 16 netmod slots, redundant DC power supplies, common equipment card, and four 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1000/2.5AC	ASX-1000 2.5 Gbps Backbone ATM Switch; base configuration includes 2.5 Gbps ATM switching fabric, 4 netmod slots, one AC power supply, common equipment card, and a 400 MHz switch control processor (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1000/2.5DC	ASX-1000 2.5 Gbps Backbone ATM Switch; base configuration includes 2.5 Gbps ATM switching fabric, 4 netmod slots, redundant DC power supplies, common equipment card, and a 400 MHz switch control processor (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1000/5AC	ASX-1000 5 Gbps Backbone ATM Switch; base configuration includes 5 Gbps ATM switching fabric, 8 netmod slots, one AC power supply, common equipment card, and two 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.

ASX-1000/5DC	ASX-1000 5 Gbps Backbone ATM Switch; base configuration includes 5 Gbps ATM switching fabric, 8 netmod slots, redundant DC power supplies, common equipment card, and two 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1000/7.5AC	ASX-1000 7.5 Gbps Backbone ATM Switch; base configuration includes 7.5 Gbps ATM switching fabric, 12 netmod slots, one AC power supply, common equipment card, and three 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1000/7.5DC	ASX-1000 7.5 Gbps Backbone ATM Switch; base configuration includes 7.5 Gbps ATM switching fabric, 12 netmod slots, redundant DC power supplies, common equipment card, and three 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/10AC	ASX-1200 10 Gbps Backbone ATM Switch; base configuration includes 10 Gbps ATM switching fabric, 16 netmod slots, one AC power supply, common equipment card, and four 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/10DC	ASX-1200 10 Gbps Backbone ATM Switch; base configuration includes 10 Gbps ATM switching fabric, 16 netmod slots, redundant DC power supplies, common equipment card, and four 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/2.5AC	ASX-1200 2.5 Gbps Backbone ATM Switch; base configuration includes 2.5 Gbps ATM switching fabric, 4 netmod slots, one AC power supply, common equipment card, and a 400 MHz switch control processor (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/2.5DC	ASX-1200 2.5 Gbps Backbone ATM Switch; base configuration includes 2.5 Gbps ATM switching fabric, 4 netmod slots, redundant DC power supplies, common equipment card, and a 400 MHz switch control processor (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/5AC	ASX-1200 5 Gbps Backbone ATM Switch; base configuration includes 5 Gbps ATM switching fabric, 8 netmod slots, one AC power supply, common equipment card, and two 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/5DC	ASX-1200 5 Gbps Backbone ATM Switch; base configuration includes 5 Gbps ATM switching fabric, 8 netmod slots, redundant DC power supplies, common equipment card, and two 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-1200/7.5AC	ASX-1200 7.5 Gbps Backbone ATM Switch; base configuration includes 7.5 Gbps ATM switching fabric, 12 netmod slots, one AC power supply, common equipment card, and three 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.

ASX-1200/7.5DC	ASX-1200 7.5 Gbps Backbone ATM Switch; base configuration includes 7.5 Gbps ATM switching fabric, 12 netmod slots, redundant DC power supplies, common equipment card, and three 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
ASX-200BX/AC	ASX-200BX 2.5 Backbone ATM Switch; base configuration includes one 2.5 Gbps ATM Switch fabric, four netmod slots, redundant AC power supplies, and a 400 MHz Pentium switch control processor (32 MB flash, 256 MB DRAM). Requires appropriate FT Software License.
ASX-200BX/DC	ASX-200BX 2.5 Backbone ATM Switch; base configuration includes one 2.5 Gbps ATM Switch fabric, four netmod slots, redundant DC power supplies, and a 400 MHz Pentium switch control processor (32 MB flash, 256 MB DRAM). Requires appropriate FT Software License.
CEC-PLUS/3D-I	Stratum 3 Redundant CEC-Plus; must choose DS-1 or E1 timing
CEC-PLUS/3S-I	Stratum 3 Simplex CEC-Plus; must choose DS1 or E1 timing
CEC-PLUS/4D-I	Stratum 4 Redundant CEC-Plus; must choose DS-1 or E1 timing
CEC-PLUS/4S-I	Stratum 4 Simplex CEC-Plus; must choose DS-1 or E1 timing
PS-1000AC-R	Redundant AC Power Supply for ASX-1000 and ASX-1200, for AC Base Configurations only
SCP-P5-400-R	Redundant Pentium 400 MHz Switch Control Processor with 256 MB DRAM and 32 MB Flash, (400 MHz Pentium SCP)*; must be same type as primary SCP in switch module. *Requires ForeThought 8.0 or greater software, or software patch to FT7.0.1, 7.1
SCP-P5-400-HM-R	Redundant Pentium 400 MHz Switch Control Processor with 512 MB DRAM and 32 MB Flash, (400 MHz Pentium SCP)*; must be same type as primary SCP in switch module. *Requires ForeThought 8.0 or greater software, or software patch to FT7.0.1, 7.1
TNX-1100/10AC-3	TNX-1100 10 Gbps switch; base configuration includes 10 Gbps switching fabric, 16 netmod slots, redundant AC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and four redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-1100/10DC-3	TNX-1100 10 Gbps switch; base configuration includes 10 Gbps switching fabric, 16 netmod slots, redundant DC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and four redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-1100/2.5AC-3	TNX-1100 2.5 Gbps switch; base configuration includes 2.5 Gbps switching fabric, 4 netmod slots, redundant AC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-1100/2.5DC-3	TNX-1100 2.5 Gbps switch; base configuration includes 2.5 Gbps switching fabric, 4 netmod slots, redundant DC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.

TNX-1100/5AC-3	TNX-1100 5 Gbps switch; base configuration includes 5 Gbps switching fabric, 8 netmod slots, redundant AC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and two redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-1100/5DC-3	TNX-1100 5 Gbps switch; base configuration includes 5 Gbps switching fabric, 8 netmod slots, redundant DC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and two redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-1100/7.5AC-3	TNX-1100 7.5 Gbps switch; base configuration includes 7.5 Gbps switching fabric, 12 netmod slots, redundant AC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and three redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-1100/7.5DC-3	TNX-1100 7.5 Gbps switch; base configuration includes 7.5 Gbps switching fabric, 12 netmod slots, redundant DC power supplies, Stratum 3 CEC-Plus (must choose DS1 or E1 timing), and three redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-210/AC	TNX-210/AC Base Configuration includes 2.5 Gbps switch fabric, 4 netmod slots, redundant AC power supplies, and redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
TNX-210/DC	TNX-210/DC Base Configuration includes 2.5 Gbps switch fabric, 4 netmod slots, redundant DC power supplies, and redundant 400 MHz switch control processors (32 MB flash, 256 MB DRAM) Requires appropriate FT Software License.
SCP-TNX-HMUPG-I	TNX SCP memory upgrade from redundant SCP-P5-400 to redundant SCP-P5-400-HM (upgrade memory from 256 MB to 512 MB on redundant SCP-P5-400)
SCP-P5-400-700-I	SCP Upgrade: Replace SCP-P5-400 (32 M flash 256 MB RAM) with 700 MHz, 64 M flash and 512 MB RAM SCP-P5-700; *Requires ForeThought 9.1 or greater software
SCP400HM700I	SCP-P5-400-HM-700-I: SCP Upgrade: Replace SCP-P5-400-HM(32 M flash 512 MB RAM) with 700 MHz, 64 M flash and 512 MB RAM SCP-P5-700; *Requires ForeThought 9.1
SCPTNX400700I	SCP-TNX-P5-400-700-I: SCP Upgrade: Replace redundant SCP-P5-400 (32 M flash 256 MB RAM) with redundant 700 MHz, 64 M flash and 512 MB RAM SCP-P5-700; *Requires ForeThought 9.1 or greater software
SCP-P5-700-R	Redundant Pentium 700 MHz Switch Control Processor with 512 MB DRAM and 64 MB Flash, (700 MHz Pentium SCP installed in redundant configuration)*; must be same type as primary SCP in switch module. *Requires ForeThought 9.1 or greater software
Network Modules (ASX200, ASX1000, ASX1200, TNX210, TNX1100)	
Spares and Upgrades	
CEC-PLUS/CXR	CEC-Plus Carrier Module*—(to order a spare, CEC-Plus, order a CEC-PLUS/CXR, and 1 or 2 TCMs of the same type and stratum desired) (available for ASX1200/TNX1100)

ENCL-1000	ASX-1000 Switch Enclosure
ENCL-1100	TNX-1100 Switch Enclosure
ENCL-1200	ASX-1200 Switch Enclosure
ENCL-200BX/AC	ASX-200BX Switch Enclosure with 2 AC Power Supplies
ENCL-200BX/DC	ASX-200BX Switch Enclosure with 2 DC Power Supplies
ENCL-210/AC	TNX-210 Switch Enclosure with 2 AC Power Supplies
ENCL-210/DC	TNX-210 Switch Enclosure with 2 DC Power Supplies
FAN-1000	ASX-1000/ASX-1200 Fan Tray
FAN-1100	TNX-1100 Fan Tray
PS-1000/DC-B	ASX-1000/ASX-1200 Power Supply – DC
PS-1000/AC-C	ASX-1000/ASX-1200 Power Supply – AC
PS-1000-INS	ASX-1000/ASX-1200 Power Supply Insert – AC
PS-200BX/AC-C	ASX-200BX Power Supply - AC
PS-200BX/DC-C	ASX-200BX Power Supply – DC
PS-210/AC-C	TNX-210 Power Supply – AC
PS-210/DC-C	TNX-210 Power Supply – DC
SCP-P5-400-HM-UPG	SCP-P5-400 256 MB DRAM upgrade, kit includes 512MB memory, EPROM, chip puller, and instruction manual
SCP400HMUPGI	SCP-P5-400-HM-UPG-I: SCP-P5-400 - upgrade memory from 256 MB to 512MB - installed at factory
SCP-P5-400	Pentium 400 MHz Switch Control Processor with 256 MB DRAM and 32 MB Flash (Requires ForeThought 8.0 or higher software, or a software patch to FT7.0 or FT7.1) (available as a spare for ASX200, ASX1000, ASX1200, TNX210, TNX1100)
SCP-P5-400-HM	Pentium 400 MHz Switch Control Processor with 512 MB DRAM and 32 MB Flash (Requires ForeThought 8.0 or higher software, or a software patch to FT7.0 or FT7.1) (available as a spare for ASX200, ASX1000, ASX1200, TNX210, TNX1100)
SCP-P5-700	Pentium 700 MHz Switch Control Processor with 512 MB DRAM and 64 MB Flash (Requires ForeThought 9.1 or higher) (available as a spare for ASX200, ASX1000, ASX1200, TNX210, TNX1100)
SM-1000	ASX-1000 Switch Module (SCP not included)
SM-1100	TNX-1100 Switch Module (SCPs not included) For installed base hardware purchases prior to Forethought 6.0
SM-1100-B	TNX-1100 High Performance Switch Module (SCPs not included) (ForeThought 6.0 or Greater Required)
SM-1100-C	High Performance OAM ready Switch Module for TNX-1100
SM-1200	ASX-1200 Switch Module (SCP not included) (ForeThought 6.0 or Greater Required)
SM-200BX	ASX-200BX Switch Module (SCP not included)
SM-210	TNX-210 Switch Module (SCP not included)
TCM/DS1-3	Timing control module with stratum-3 DS1 interface (available for ASX1200/TNX1100)
TCM/E1-3	Timing control module with stratum-3 E1 interface (available for ASX1200/TNX1100)
Accessories	
CMT-19	19" Cable Management Tray

CMT-23	23" Cable Management Tray
MM-SOFF-RMB23	23" MID MOUNT Bracket kit
RMB23-14UI	23" Rack Mounting Brackets (1 pair)
KIT0035-01	ASX200BX Mounting Bracket Kit
Series E Network Modules	
NM-4/E3E	Four port E3, BNC connector
NM-4/DS3E	Four port DS3, BNC connector
NM-4/155UTPE	Four port OC-3c, UTP, RJ-45 connector
NM-4/155MMSCE	Four port OC-3c, MM, SC connector
NM-4/155MMSTE	Four port OC-3c, MM, ST connector
NM-4/155LR3MME	Single port SMLR (1550nm) and three port MM OC-3c, SC connector
NM-4/155IR3MME	Single port SMIR and three port MM OC-3c, SC connector
NM-4/155SMIRE	Four port OC-3c, SMIR, SC connector
NM-4/155SMLRE	Four port OC-3c, SMLR (1550nm), SC connector
NM-1/622MMSCE	Single port OC-12c, MM, SC connector
NM-1/622SMIRE	Single port OC-12c, SMIR, SC connector
NM-1/622SMLRE	Single port OC-12c, SMLR (1550nm), SC connector
Ethernet Network Modules	
NM-4/ETH-TXB	4 port 10/100 IP capable Ethernet Network Module for ASX-200BX, ASX-1000, ASX-1200, TNX-210 and TNX-1100
NM1/GIGEGBICSX	NM-1/ETH-1000GBIC-SX: One port Gigabit Ethernet network module with 500M reach, multimode GBIC interface for ASX-200BX, ASX-1000, ASX-1200, TNX-210, TNX-1100 and ASX-4000 or ASX-4000M with NMCC
NM1/GIGEGBICLX	NM-1/ETH-1000GBIC-LX: One port Gigabit Ethernet network module with up to 10KM single mode intermediate reach GBIC interface for ASX-200BX, ASX-1000, ASX-1200, TNX-210, TNX-1100 and ASX-4000 or ASX-4000M with NMCC
NM1/GIGEGBIC	NM-1/ETH-1000GBIC: One port Gigabit Ethernet network module with no GBIC interface for ASX-200BX, ASX-1000, ASX-1200, TNX-210, TNX-1100 and ASX-4000 or ASX-4000M with NMCC
NM-GBIC-SX	500M multimode GBIC interface
NM-GBIC-LX	10KM Single mode intermediate reach GBIC interface
NM-LANESVR	LANE v1.0 Services Network Module
Circuit Emulation Network Modules	
NMCE-3/DS3	3-port channelized DS3 3/1/0 Circuit Emulation Service network module (8.2)
NMCE-1/155SMIRE	One port channelized OC3 CEM network module (SMIR) (FT 8.3.1)
NMCE-1/155MME	One port channelized OC3 CEM network module (MM) (FT 8.3.1)
NMCE-8/DS1E1E	8 port T1 1.544 Mbps and E1 2.048 Mbps Circuit Emulation module (8.1)
CBL-LC-SC/MM-5	LC to SC Connector, multimode Fiber, 5M
CBL-LC-SC/SM-5	LC to SC Connector, single mode Fiber, 5M
Frame Relay Interworking Network Modules	

NMFR-4/DS1A	4 port DS1 1.544 Mbps Frame Interworking (5.2)
NMFR-4/E1A	4 port E1 2.048 Mbps Frame Interworking (5.2)
NMFR-3/DS3	3-port channelized DS3 3/1/0 Frame Relay Interworking network module (8.2)
ASX/TNX Frame Relay Application Software (One-Time RTU License Fee)	
MLFR-RTU/DS3	Multi-Link Frame Relay RTU Software (for 3-port channelized DS3 3/1/0 Frame Relay network module - NMFR-3/DS3) (per FR NM) (8.3)
T1/E1 to V.35 converter	
V35-T1-FT1-KIT	T1/FT1 to V.35 converter
V35-E1-FE1-KIT	E1/FE1 to V.35 converter
V35-T1-FT1-C-KIT	T1/FT1 to V.35 converter incl. DB-60 Pigtail for interconnect with Cisco Routers
V35-E1-FE1-C-KIT	E1/FE1 to V.35 converter incl. DB-60 Pigtail for interconnect with Cisco Routers
IMA Network Modules	
NMIMA-8/DS1D	8 port Universal DS1 IMA & ATM network modules
NMIMA-8/E1D	8 port Universal E1 IMA & ATM network modules
NMIMA-3/DS3	3-port channelized DS3 3/1 IMA & ATM network module (8.3)
NMIMA-1/155SFPE	1+1 Channelized OC-3/STM-1 IMA network module with multimode or single mode intermediate reach pluggable optics for ASX200BX, ASX1000, ASX1200, TNX210, TNX1100 and ASX4000/M.
SFP-155MM1	OC-3c/STM-1 Small Form-factor Pluggable, Multimode Fiber, Short Reach - 1310nm, LC Connector
SFP-155IR1	OC-3c/STM-1 Small Form-factor Pluggable, Single Mode Fiber, Intermediate Reach - 1310nm, LC Connector
NMIMA32DS1E1E	32PORT,IMA,DS1E1E,NETMOD
BOB32DS1E1E	32PORT,IMA,DS1E1E,BREAKOUT
CABL2MBOB	CABLE, NMIMA,BREAKOUT BOX,2M
CABL5MBOB	CABLE, NMIMA,BREAKOUT BOX,5M
Serial Network Modules	
NMCE-4/SR24	4-port serial CEM network module
NM-4/SR24-E	4-port cell-bearing serial (CBI) network module
Serial Network Module Cables	
CABL0397	SERIAL NM (NMCE-4/SR24) CABLE,10FT,EIA/TIA/RS-232,DCE
CABL0398	SERIAL NM (NMCE-4/SR24) CABLE,10FT,EIA/TIA/RS-232,DTE
CABL0399	SERIAL NM (NMCE-4/SR24) CABLE,10FT,EIA/TIA/RS-449,DCE
CABL0400	SERIAL NM (NMCE-4/SR24) CABLE,10FT,EIA/TIA/RS-449,DTE
CABL0401	SERIAL NM (NMCE-4/SR24) CABLE,10FT,EIA/TIA/RS-530,DCE
CABL0402	SERIAL NM (NMCE-4/SR24) CABLE,10FT,EIA/TIA/RS-530,DTE
CABL0403	SERIAL NM (NMCE-4/SR24) CABLE,10FT,V.35,DCE
CABL0414-0001	CAB, 10' EIA-530 DCE W/CRYPTO
CABL0415-0001	CAB, 10' EIA-530 DTE W/CRYPTO
CABL0416-0001	CAB, 10' EIA-530 DCE W/O CRYPTO
CABL0417-0001	CAB, 10' EIA-530 DTE W/O CRYPTO
BXR400/ BXR1600 System Configurations	

BXR400R/4AC	BXR400 4Gbps Redun AC System. Requires appropriate FT Software License.
BXR400R/4DC	BXR400 4Gbps Redun DC System. Requires appropriate FT Software License.
BXR1600R/4AC	BXR1600 4Gbps Redun AC System. Requires appropriate FT Software License.
BXR1600R/8AC	BXR1600 8Gbps Redun AC System. Requires appropriate FT Software License.
BXR1600R/12AC	BXR1600 12Gbps Redun AC System. Requires appropriate FT Software License.
BXR1600R/16AC	BXR1600 16Gbps Redun AC System. Requires appropriate FT Software License.
BXR1600R/4DC	BXR1600 4Gbps Redun DC System. Requires appropriate FT Software License.
BXR1600R/8DC	BXR1600 8Gbps Redun DC System. Requires appropriate FT Software License.
BXR1600R/12DC	BXR1600 12Gbps Redun DC System. Requires appropriate FT Software License.
BXR1600R/16DC	BXR1600 16Gbps Redun DC System. Requires appropriate FT Software License.
BXR400/ BXR1600 Spares	
ENCL-1600	BXR1600 enclosure
ENCL-400/AC	BXR400 enclosure, 2 AC PS
ENCL-400/DC	BXR400 enclosure, 2 DC PS
SM-400	4G Switch Module for 2x0/4x0
SM-1600	4G Switch Module for 1x00
BXR-SCP-P5-700	FT Plus SCP-P5-700
BXR-SCP-P5-400-HM	FT Plus SCP-P5-400-HM
BXR-SCP-P5-400	FT Plus SCP-P5-400
FTA-1600-G-UPG	FT Plus Gold SW Upg-16G Switch
FTA-400-G-UPG	FT Plus Gold SW Upg-4G Switch
PS-400/AC	BXR400 AC PS (SC-ASX/TNX)
PS-400/DC	BXR400 DC PS (SC-ASX/TNX)
PS-1600/AC	BXR1600 AC PS (SC-ASX/TNX)
PS-1600/DC	BXR1600 DC PS (SC-ASX/TNX)
BXR400/ BXR1600 Software	
FT-BXR1600-PL	FT-BXR Platinum SW - BXR1600
FT-BXR400-PL	FT-BXR Platinum SW - BXR400
FT-BXR1600-PL-UPG	FT-BXR SW Upgrade - BXR1600
FT-BXR400-PL-UPG	FT-BXR SW Upgrade - BXR400
BXR400/ BXR1600 Netmods	
NM-ATM1/2488SFP	1-port OC-48c/STM-16 Netmod
NM-ATM4/622SFP	4-port OC-12c/STM-4 Netmod
Supercharged Systems	
ASX-200BX/AC-SC	4G ASX200BX AC
ASX-200BX/DC-SC	4G ASX200BX DC
ASX-1200/4AC-SC	4G ASX1200 AC
ASX-1200/4DC-SC	4G ASX1200 DC

ASX-1200/8AC-SC	8G ASX1200 AC
ASX-1200/8DC-SC	8G ASX1200 DC
ASX-1200/12AC-SC	12G ASX1200 AC
ASX-1200/12DC-SC	12G ASX1200 DC
ASX-1200/16AC-SC	16G ASX1200 AC
ASX-1200/16DC-SC	16G ASX1200 DC
TNX-210/AC-SC	4G TNX210 AC
TNX-210/DC-SC	4G TNX210 DC
TNX-1100/4AC-3-SC	4G TNX1100 AC Stratum 3
TNX-1100/4DC-3-SC	4G TNX1100 DC Stratum 3
TNX-1100/8AC-3-SC	8G TNX1100 AC Stratum 3
TNX-1100/8DC-3-SC	8G TNX1100 DC Stratum 3
TNX-1100/12AC-3-SC	12G TNX1100 AC Stratum 3
TNX-1100/12DC-3-SC	12G TNX1100 DC Stratum 3
TNX-1100/16AC-3-SC	16G TNX1100 AC Stratum 3
TNX-1100/16DC-3-SC	16G TNX1100 DC Stratum 3
BXR-SCP400HMUPGI	FT Plus SCP New Upg to 400-HM
BXR-SCP-P5-400-700-I	FT Plus SCP New Upgr to P5-700
BXR-SCP-P5-400-HM-R	FT Plus SCP redun. P5-400-HM
BXR-SCP-P5-400-R	FT Plus SCP redun. P5-400
BXR-SCP-P5-700-R	FT Plus SCP redun. P5-700
BXR-SCPTNX400700I	FT Plus SCP TNX New Upg to 700
BXR-SCP-TNX-HMUPG-I	FT Plus SCP TNX New Upg to HM
FTA-1600-G	FT Plus Gold SW - 16G Switch
FTA-400-G	FT Plus Gold SW - 4G Switch
ASX-4000 Backbone ATM Switch	
ASX-4000/AC Base Configurations	
ASX-4000/10AC	ASX-4000 10 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/20AC	ASX-4000 20 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/30AC	ASX-4000 30 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/40AC	ASX-4000 40 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/DC Base Configurations	
ASX-4000/10DC	ASX-4000 10 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/20DC	ASX-4000 20 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/30DC	ASX-4000 30 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000/40DC	ASX-4000 40 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000M Base Configurations	
ASX-4000M/10DC	ASX-4000M 10 Gbps ATM Backbone Switch. Requires appropriate FT Software License

ASX-4000M/20DC	ASX-4000M 20 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000M/30DC	ASX-4000M 30 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000M/40DC	ASX-4000M 40 Gbps ATM Backbone Switch. Requires appropriate FT Software License
ASX-4000 Required Shelf Options (must choose one)	
SHELF-4000/19-I	19" Cabinet Shelf Assembly (Corner-mount)*
SHELF4000/19MM-I	ASX4000 19" Assembly Mid-mount
SHELF-4000/23-I	23" Cabinet Shelf Assembly (Corner-mount)*
SHELF4000/23MM-I	ASX4000 23" Assembly Mid-mount
	* Cabinet must be between 24-36" deep
ASX-4000M Required Shelf Options (must choose one)	
SHELF4000M/23MMI	23" Assembly Mid-mount shelf
ASX-4000/AC Hardware Options	
SCP4K512DS1IAC	SCP-4000-P3-512-DS1-I-AC: Factory installed Pentium 3 switch control processor with DS1 BITS timing in place of base Pentium II. Requires FT 7.1 or higher.
SCP4K512E1IAC	SCP-4000-P3-512-E1-I-AC: Factory installed Pentium 3 switch control processor with E1 BITS timing in place of base Pentium II. Requires FT 7.1 or higher.
SCP4K512TRAC	SCP-4000-P3-512-T-R-AC: Redundant Pentium 3 switch control processor (without BITS timing); must be same type as primary SCP. Requires FT 7.1 or higher. Not field upgradeable to DS-1 or E1 BITS timing capability.
SCP4K512DS1RAC	SCP-4000-P3-512-DS1-R-AC: Redundant Pentium 3 switch control processor with DS1 BITS timing; must be same type as primary SCP. Requires FT 7.1 or higher.
SCP4K512E1RAC	SCP-4000-P3-512-E1-R-AC: Redundant Pentium 3 switch control processor with E1 BITS timing; must be same type as primary SCP. Requires FT 7.1 or higher.
SCP4K1024TIAC	SCP-4000-P3-1024-T-I-AC: Factory installed Pentium 3 switch control processor (without BITS timing) in place of base Pentium II. Requires FT 8.0 or higher. Not field upgradeable to DS-1 or E1 BITS timing capability.
SCP4K1024DS1IAC	SCP-4000-P3-1024-DS1-I-AC: Factory installed Pentium 3 switch control processor with DS1 BITS timing in place of base Pentium II. Requires FT 8.0 or higher.
SCP4K1024E1IAC	SCP-4000-P3-1024-E1-I-AC: Factory installed Pentium 3 switch control processor with E1 BITS timing in place of base Pentium II. Requires FT 8.0 or higher.
SCP4K1024TRAC	SCP-4000-P3-1024-T-R-AC: Redundant Pentium 3 switch control processor (without BITS timing); must be same type as primary SCP. Requires FT 8.0 or higher. Not field upgradeable to DS-1 or E1 BITS timing capability.
SCP4K1024DS1RAC	SCP-4000-P3-1024-DS1-R-AC: Redundant Pentium 3 switch control processor with DS1 BITS timing; must be same type as primary SCP. Requires FT 8.0 or higher.
SCP4K1024E1RAC	SCP-4000-P3-1024-E1-R-AC: Redundant Pentium 3 switch control processor with E1 BITS timing; must be same type as primary SCP. Requires FT 8.0 or higher.

ASX-4000 and ASX-4000M/DC Hardware Options	
SCP4K512DS1IDC	SCP-4000-P3-512-DS1-I-DC: Factory installed Pentium 3 switch control processor with DS1 BITS timing in place of SCP without BITS timing. Requires FT 7.1 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K512E1IDC	SCP-4000-P3-512-E1-I-DC: Factory installed Pentium 3 switch control processor with E1 BITS timing in place of SCP without BITS timing. Requires FT 7.1 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K512DS1RDC	SCP-4000-P3-512-DS1-R-DC: Redundant Pentium 3 switch control processor with DS1 BITS timing; must be same type as primary SCP. Requires FT 7.1 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K512E1RDC	SCP-4000-P3-512-E1-R-DC: Redundant Pentium 3 switch control processor with E1 BITS timing; must be same type as primary SCP. Requires FT 7.1 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K1024DS1IDC	SCP-4000-P3-1024-DS1-I-DC: Factory installed Pentium 3 switch control processor with DS1 BITS timing in place of SCP without BITS timing. Requires FT 8.0 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K1024E1IDC	SCP-4000-P3-1024-E1-I-DC: Factory installed Pentium 3 switch control processor with E1 BITS timing in place of SCP without BITS timing. Requires FT 8.0 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K1024TRDC	SCP-4000-P3-1024-T-R-DC: Redundant Pentium 3 switch control processor (without BITS timing); must be same type as primary SCP. Not field upgradeable to DS-1 or E1 BITS timing capability. Requires FT8.0 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K1024DS1RDC	SCP-4000-P3-1024-DS1-R-DC: Redundant Pentium 3 switch control processor with DS1 BITS timing; must be same type as primary SCP. Requires FT 8.0 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
SCP4K1024E1RDC	SCP-4000-P3-1024-E1-R-DC: Redundant Pentium 3 switch control processor with E1 BITS timing; must be same type as primary SCP. Requires FT 8.0 or higher for ASX-4000. Requires FT8.1 or higher for ASX-4000M.
ASX-4000 Series 1 Port Cards	
PC-2/2488SMSR1	2 port, 2488 Mbps OC-48c/STM-16c port card, single mode fiber, short reach, SC connector
PC2/2488SMSR1PM	PC-2/2488SMSR1-PM: 2-port, 2488 Mbps OC-48c/STM-16c port card with port monitoring, single mode fiber, short reach, SC connector
PC-2/2488SMLRSC1	2 port, 2488 Mbps OC-48c/STM-16c port card, single mode fiber, long reach, SC connector
ASX-4000M Series 1 Port Cards	
PC-2/2488SMSR1	2 port, 2488 Mbps OC-48c/STM-16c port card, single mode fiber, short reach, SC connector

PC-2/2488SMSR1PM	PC-2/2488SMSR1-PM: 2-port, 2488 Mbps OC-48c/STM-16c port card with port monitoring, single mode fiber, short reach, SC connector
PC-2/2488SMLRSC1	2 port, 2488 Mbps OC-48c/STM-16c port card, single mode fiber, long reach, SC connector
ASX-4000/ASX-4000M Series 2 Port Cards	
PC-28/155MM2	28 port, 155Mbps OC-3c/STM-1 port card, multimode fiber, intermediate reach, MT-RJ connector
PC28155SMIR2B	28p-OC-3c/STM1, SM fiber, LC
PC-8/622MM2	8-port, 622 Mbps OC-12c/STM-4c port card, multimode fiber, SC connector
PC-8/622SMIR2	8-port, 622 Mbps OC-12c/STM-4c port card, single mode fiber, intermediate reach, SC connector
PC-8/622SMLR2	8-port, 622 Mbps OC-12c/STM-4c port card, single mode fiber, 1550 long reach, SC connector
PC4CH622DS3SMIR2	PC-4/CH622DS3SMIR2: 4-port, channelized 622 Mbps OC-12/STM-4(12 DS3 channels per port) port card, single mode fiber, intermediate reach, SC connector
PC20622X155SMIR2B	4p-622Mx16p-155M, SMIR, SCxLC
ASX-4000/ASX-4000M Netmod Carrier Card	
PC-4000NMC	Network Module Carrier Card (NMC)
ASX-4000 Spares & Accessories	
CMS-4000A	ASX-4000 Cable Management System; Includes: Two port card doors and four cable channels
SM-4000	ASX-4000 Switch Module
SCP4K512T	SCP-4000-P3-512-T: ASX-4000 Pentium 3 512 MB switch control processor (without BITS timing). Requires FT 7.1 or higher. Not field upgradeable to DS-1 or E1 BITS timing capability.
SCP4K512DS1	SCP-4000-P3-512-DS1: ASX-4000 Pentium 3 512 MB switch control processor with DS1 BITS timing. Requires FT 7.1 or higher.
SCP4K512E1	SCP-4000-P3-512-E1: ASX-4000 Pentium 3 512 MB switch control processor with E1 BITS timing. Requires FT 7.1 or higher.
SCP4K1024T	SCP-4000-P3-1024-T: ASX-4000 Pentium 3 1024 MB switch control processor (without BITS timing). Not field upgradeable to DS-1 or E1 BITS timing capability. Requires FT 8.0 or higher.
SCP4K1024DS1	SCP-4000-P3-1024-DS1: ASX-4000 Pentium 3 1024 MB switch control processor with DS1 BITS timing. Requires FT 8.0 or higher.
SCP4K1024E1	SCP-4000-P3-1024-E1: ASX-4000 Pentium 3 1024 MB switch control processor with E1 BITS timing. Requires FT 8.0 or higher.
PS-4000/AC	ASX-4000 Power Supply – AC
PS-4000/DC	ASX-4000 Power Supply – DC
ENCL-4000/AC	ASX-4000 Switch Enclosure – AC (Chassis only)
ENCL-4000/DC	ASX-4000 Switch Enclosure – DC (Chassis only)
FAN-4000	ASX-4000 Fan Tray
FILTERTRAY-4000	ASX-4000 Filter Tray

FILTER-4000	ASX-4000 Filter
SHELF-4000/19	ASX-4000 19" Cabinet Shelf Assembly (Corner-mount)*
SHELF-4000/19MM	ASX-4000 19" Relay Rack Shelf Assembly (Mid-mount)
SHELF-4000/23	ASX-4000 23" Cabinet Shelf Assembly (Corner-mount)*
SHELF-4000/23MM	ASX-4000 23" Relay Rack Shelf Assembly (Mid-mount)
FP-4000-PC-SM	ASX-4000 port card switch module faceplate
FP-4000-SCP	ASX-4000 SCP faceplate
MTRJ-SC/MM	MT-RJ to SC connector, multimode fiber cable, 4 meters
MTRJ-SC/SM	MT-RJ to SC connector, single mode fiber cable, 4 meters
LC-MTRJ/SM	LC to MT-RJ SMF CAB 1F
Connector Patch Panel	Connector Patch Panel
HWKT0282-0001	TIM kit to provide BITS input connectors for pre-CY2000 ASX-4000 switches
ASX-4000M Spares & Accessories	
CMS-4000M	ASX-4000M Cable Management System
SM-4000	ASX-4000 Switch Module
SCP4K512T	SCP-4000-P3-512-T: ASX-4000 Pentium 3 512 MB switch control processor (without BITS timing). Requires FT 7.1 or higher. Not field upgradeable to DS-1 or E1 BITS timing capability.
SCP4K512DS1	SCP-4000-P3-512-DS1: ASX-4000 Pentium 3 512 MB switch control processor with DS1 BITS timing. Requires FT 7.1 or higher.
SCP4K512E1	SCP-4000-P3-512-E1: ASX-4000 Pentium 3 512 MB switch control processor with E1 BITS timing. Requires FT 7.1 or higher.
SCP4K1024T	SCP-4000-P3-1024-T: ASX-4000 Pentium 3 1024 MB switch control processor (without BITS timing). Not field upgradeable to DS-1 or E1 BITS timing capability. Requires FT 8.0 or higher.
SCP4K1024DS1	SCP-4000-P3-1024-DS1: ASX-4000 Pentium 3 1024 MB switch control processor with DS1 BITS timing. Requires FT 8.0 or higher.
SCP4K1024E1	SCP-4000-P3-1024-E1: ASX-4000 Pentium 3 1024 MB switch control processor with E1 BITS timing. Requires FT 8.0 or higher.
PS-4000M/DC	ASX-4000M - DC Power Supply
ENCL-4000M/DC	ASX-4000M Switch Enclosure - DC (Chassis only)
FAN-4000M	ASX-4000M Fan Tray
FILTER-4000M	ASX-4000M Filter
SHELF-4000M/23MM	ASX-4000M 23" Relay Rack Shelf Assembly (Mid-mount)
BXR-48000 Base Configurations	
BXR-48480/40DC	BXR-48000 40 Gbps Broadband Switch Router, 480 Gbps Chassis (BXR-ENCL/48480A only). Requires appropriate FT Software License
BXR-48480/80DC	BXR-48000 80 Gbps Broadband Switch Router, 480 Gbps Chassis (BXR-ENCL/48480A only) Requires appropriate FT Software License

BXR-48480/120DC	BXR-48000 120 Gbps Broadband Switch Router, 480 Gbps Chassis (BXR-ENCL/48480A only) Requires appropriate FT Software License
BXR-48480/160DC	BXR-48000 160 Gbps Broadband Switch Router, 480 Gbps Chassis (BXR-ENCL/48480A only) Requires appropriate FT Software License
BXR-48480/240DC	BXR-48000 240 Gbps Broadband Switch Router, 480 Gbps Chassis (BXR-ENCL/48480A only) Requires appropriate FT Software License
BXR-48480/480DC	BXR-48000 480 Gbps Broadband Switch Router, 480 Gbps Chassis (BXR-ENCL/48480A and BXR-ENCL/48480B) Requires appropriate FT Software License
BXR-48000 Redundancy Package	
BXR-REDUNDANCY	BXR-48000 Chassis Redundancy (includes AIM and additional SCP, fabric, TCM)
BXR-48000 Software Options:	
FT-48000-G	BXR-48000 ForeThought Software - Gold (ATM)
BXR-48000 Port Cards:	
BXR-ATM16/155MM1	16-Port OC-3c/STM-1 ATM Port Card, MultiMode Fiber, LC Connectors
BXR-ATM16/155IR1	16-Port OC-3c/STM-1 ATM Port Card, Single Mode Fiber, Intermediate Reach - 1310 nm, LC Connectors
BXR-ATM16/622MM1	16-Port OC-12c/STM-4 and/or OC-3c/STM-1 ATM Port Card, MultiMode Fiber, LC Connectors
BXR-ATM16/622IR1	16-Port OC-12c/STM-4 and/or OC-3c/STM-1 ATM Port Card, Single Mode Fiber, Intermediate Reach - 1310 nm, LC Connectors
BXR-ATM4/2488SR1	4-Port OC-48c/STM-16 ATM Port Card, Single Mode Fiber, Short Reach - 1310 nm, SC Connectors
BXR-ATM4/2488LR1	4-Port OC-48c/STM-16 ATM Port Card, Single Mode Fiber, Long Reach - 1550 nm, SC Connectors
BXR-ATM1/9952SR1	1-Port OC-192c/STM-64 ATM, Single Mode Fiber, Short Reach - 1310nm, SC Connector
Optics:	
SFP-155MM1	OC-3c/STM-1 Small Form-factor Pluggable, Multimode Fiber, Short Reach - 1310nm, LC Connector
SFP-155SR1	OC-3c/STM-1 Small Form-factor Pluggable, Single Mode Fiber, Short Reach - 1310nm, LC Connector
SFP-155IR1	OC-3c/STM-1 Small Form-factor Pluggable, Single Mode Fiber, Intermediate Reach - 1310nm, LC Connector
SFP-155IR2	OC-3c/STM-1 Small Form-factor Pluggable, Single Mode Fiber, Intermediate Reach - 1310nm, LC Connector
SFP-622MM1	OC-12c/STM-4 and/or OC-3c/STM-1 Small Form-factor Pluggable, Multimode Fiber, Short Reach - 1310nm, LC Connector
SFP-622SR1	OC-12c/STM-4 and/or OC-3c/STM-1 Small Form-factor Pluggable, Single Mode Fiber, Short Reach - 1310nm, LC Connector
SFP-622IR1	OC-12c/STM-4 and/or OC-3c/STM-1 Small Form-factor Pluggable, Single Mode Fiber, Intermediate Reach - 1310nm, LC Connector

SFP-622LR1	622 Mbps Single-mode 1550nm SFP
SFP-2488SR1	OC-48c/STM-16 Small Form-factor Pluggable, Single Mode Fiber, Short Reach - 1310nm, LC Connector
SFP-2488LR1	OC-48c/STM-16 Small Form-factor Pluggable, Single Mode Fiber, Long Reach - 1550nm, LC Connector
SFP-1GE-MMSX	Gigabit Ethernet, Multi Mode Fiber, Short Reach - 850 nm, Small Form-factor Pluggable Optical LC Connector
BXR-48000 Spares & Accessories:	
BXR-48480/DC-EXT	BXR-48480/480DC-EXT BXR-48000 480 Gbps Broadband Switch Router, Extension from BXR-ENCL/48480A 240 Gbps to 480 Gbps (BXR-ENCL/48480B, Fabrics, PCMs, Fan Trays, Filter, Interconnect cables)
BXR-ENCL/48480A	BXR-48480 Enclosure (Chassis A) - 40 to 240 Gbps
BXR-ENCL/48480B	BXR-48480 Enclosure (Chassis B) - 240 to 480 Gbps
BXR-FANTRAY	BXR-48000 Fan Tray
BXR-FILTER	BXR-48000 Filter
BXR-SCP-V2	BXR-48000 System Control Processor - Version 2 (TBD)
BXR-PCM/DC	BXR-48000 Power Conditioning Module - DC
BXR-FM	BXR-48000 Fabric Module
BXR-TCM-LBS	BXR-48000 Timing Control Module w/ Line, BITS & Stratum 3E Timing
BXR-AIM	BXR-48000 Alarm Interface Module
BXR-FP-PC	BXR-48000 Port Card Face Plate
BXR-FP-SCP	BXR-48000 SCP Face Plate
BXR-FP-TCM	BXR-48000 TCM Face Plate
BXR-FP-AIM	BXR-48000 AIM Face Plate
BXR-FP-FM	BXR-48000 Fabric Module Face Plate
BXR-48480-CAB/A	BXR-48000 480G 23" Cabinet - Chassis A
BXR-48480-CAB/B	BXR-48000 480G 23" Cabinet - Chassis B (EXT)
BXR-PCM-NRFJ	BXR-48000 PCM Jumpers
ForeThought Software Licenses	
FTA-200-EN	ForeThought Enterprise License, ASX-200BX
FTA-200-EX	ForeThought Extended Enterprise License, ASX-200BX
FTA-200-SP	ForeThought Service Provider License, ASX-200
FTA-200-G	ForeThought Gold License, ASX-200BX
FTA-1000-EN	ForeThought Enterprise License, ASX-1000
FTA-1000-EX	ForeThought Extended Enterprise License, ASX-1000
FTA-1000-SP	ForeThought Service Provider License, ASX-1000
FTA-1000-G	ForeThought Gold License, ASX-1000
FTA-1200-EN	ForeThought Enterprise License, ASX-1200
FTA-1200-EX	ForeThought Extended Enterprise License, ASX-1200
FTA-1200-SP	ForeThought Service Provider License, ASX-1200
FTA-1200-G	ForeThought Gold License, ASX-1200
FTA-4000-EN	ForeThought Enterprise License, ASX-4000
FTA-4000-EX	ForeThought Extended Enterprise License, ASX-4000
FTA-4000-SP	Forethought Service Provider License, ASX-4000
FTA-4000-G	ForeThought Gold License, ASX-4000

FTA-210-SP	ForeThought Service Provider License, TNX-210
FTA-210-G	ForeThought Gold License, TNX-210
FTA-1100-SP	ForeThought Service Provider License, TNX-1100
FTA-1100-G	ForeThought Gold License, TNX-1100
Adapters	
ForeRunnerHE 155 Adapters	
<i>Includes:</i>	<i>155 Mbps, Windows 95/98/Windows NT/Novell NetWare/Solaris/AIX device drivers</i>
105-1101-100	HE PCI Bus Adapter - 155Mb UTP5, RJ45, CD/Doc./Drivers - Windows NT4.0,2000, XP, Netware 4.11-5.0, AIX 4.2.1-4.3.2, IRIX 6.4&prior, Solaris 2.6-2.9, HP UX11.0&prior, Compaq/DEC UNIX 4.0D&prior
105-1112-100	HE PCI Bus Adapter - 155Mb OC3, SC, CD/Doc./Drivers - Windows NT4.0,2000, XP, Netware 4.11-5.0, AIX 4.2.1-4.3.2, IRIX 6.4&prior, Solaris 2.6-2.9, HP UX11.0&prior, Compaq/DEC UNIX 4.0D&prior
ForeRunnerHE 622 Adapters	
<i>Includes:</i>	<i>622 Mbps, Windows 95/98/Windows NT/Novell NetWare/Solaris/AIX device drivers</i>
105-1212-100	HE PCI Bus Adapter - 622Mb MMF, OC-12, CD/Doc./Drivers - Windows NT4.0,2000, XP, Netware 4.11-5.0, AIX 4.2.1-4.3.2, IRIX 6.4&prior, Solaris 2.6-2.9, HP UX11.0&prior, Compaq/DEC UNIX 4.0D&prior
105-1232-100	HE PCI Bus Adapter - 622Mb, OC-12, SMF, CD/Doc./Drivers - Windows NT4.0,2000, XP, Netware 4.11-5.0, AIX 4.2.1-4.3.2, IRIX 6.4&prior, Solaris 2.6-2.9, HP UX11.0&prior, Compaq/DEC UNIX 4.0D&prior
ForeRunnerHE 622 OC-12c Connectivity Packages	
<i>Includes:</i>	<i>Adapter and network module for switch</i>
105-1212-520	ForeRunnerHE 622 multimode fiber adapter and NM-1/622MMSCE
GBIC	
213-1002-000	1000Base-SX Compliant GBIC (850nm), SC Connector
213-1003-000	1000Base-LX Compliant GBIC (1310nm), SC Connector
213-1004-000	1000Base-LH Compliant GBIC (1550nm) (up to 70km), SC Connector
213-1005-000	1000Base-T Copper GBIC Transceiver for ESR
DGS-711	1000Base-TX compliant GBIC, RJ45 connector - 50 meter reach
Common Cables	
RJ48C-75BNC	E1 Interface Adapter: 120 ohm RJ48c to 75 ohm BNC interface adapter. (Used with NMFR-4E1A)
PC-AUSTRALIA	Power Cord with AS3112 plug (Australia, New Zealand, parts of PRC)
PC-DENMARK	Power Cord with Afsnit 107-2-01 plug (Denmark)
PC-EUROPE	Power Cord with CEE 7/7 plug (Continental Europe)
PC-INDIA	Power Cord with British BS546 plug (India, South Africa)
PC-ISRAEL	Power Cord with SI-32 plug (Israel)
PC-ITALY	Power Cord with CEI23-16/VII (Italy)

PC-JAPAN	Power Cord with JIS8303 plug (Japan)
PC-NAMERICA	Power Cord with NEMA 5-15 plug (North America)
PC-SWITZ	Power Cord with SEV1011 plug (Switzerland)
PC-UK	Power Cord with BS1363 plug (United Kingdom, Ireland)
SC-BX/ASX	Serial Cable for 200WG/200GX/210/1000/1100/4000
ServiceOn Data Service Provider Edition	
SOND-ENTRY	Right-to-Use ServiceOn Data, Entry cost only
SOND-4000-FABRIC	Right-to-Use ServiceOn Data on one 4000 Series switch fabric
SOND-1000-FABRIC	Right-to-Use ServiceOn Data on one 1000 Series switch fabric
SOND-BXR-FABRIC	Right-to-Use ServiceOn Data on one BXR48000 Series switch router fabric - Connection Fee per Fabric
SOND-BXR5000-BL	SOND-BXR5000-BASE Right-to-Use ServiceOn Data Baseline Support on one BXR-5000 device - Connection Fee per Device
SOND-BM-BL	SOND-BROADMORE-BASE Right-to-Use ServiceOn Data on one Broadmore device - Connection Fee per Device
SOND-200	Right-to-Use ServiceOn Data on one 200 Series switch
SOND-SE	Right-to-Use ServiceOn Data on one SE Series switch
SOND-ESR	Right-to-Use ServiceOn Data on one ESR Series switch
SOND-RS	Right-to-Use ServiceOn Data on one Riverstone RS3000/36000/8600 - Connection Fee per device
SOND-AXH	Right-to-Use ServiceOn Data on one AXH 2500 Series switch - Connection Fee/Per Device
SOND-MEDIA	ServiceOn Data product kit (no Right-to-Use licenses are included). Also intended for upgrades
SOND-O-HA	Right-to-Use ServiceOn Data with High Availability
SOND-O-CNM	Right-to-use ServiceOn Data CNM feature. Includes license for 10 client users. Does not include ServiceOn Data Management Software or Device Connection certificates.
SOND-O-CNM-C-5	SOND-O-CNM-CLIENT-5 Right-to-use ServiceOn Data CNM - 5 Additional Client licenses, must purchase SOND-O-CNM first.
SOND-PMH-STD	SOD SP RTU PMH Std 1000 stats
SOND-PMH-EXT	SOD SP RTU PMH Ext Unlim stats
SOND-VLAN-100	SOD SP RTU 100 Network VLANs
SOND-400	SOD SP RTU BXR400 Device
SOND-1600-FABRIC	SOD SP RTU BXR1600 Fabric
ServiceOn Data Enterprise Edition	
SON-ENT-MEDIA	ServiceOn Data Enterprise Edition Media Kit (No licenses included)
SON-ENT-SERVER	Single Server License
SON-ENT-CLIENT	Single Client License
SON-ENT-SITE	Site License - unlimited servers and clients at a single site location
SON-ENT-BM	SON-ENT-BROADMORE Right-to-use ServiceOn Data end-to-end provisioning with Broadmore devices - Covers all Broadmore devices managed by a single server
SON-ENT-PMH-STD	SOD ENT RTU PMH Std 1000 stats
SON-ENT-PMH-EXT	SOD ENT RTU PMH Ext Unlim stats
SON-ENT-VLAN-100	SOD ENT RTU 100 Network VLANs

ServiceOn Fusion for Data	
SONFD-FULL	SERVICEON FUSION FOR DATA,FULL LICENSE
SONFD-FAULT	SERVICEON FUSION FOR DATA,FAULT LICENSE
Service and Support Products	
Product Number	Description
Support Services	
ESSENTIAL REPLACE	
SUPP-S-A	Support, Next Business Day advance replacement
SUPP-S-PO	Support, 24x7, 4 hr. parts only
SUPP-S-PS	Support, 24X7, 4 hr. parts and service
ESSENTIAL REPAIR	
SUPP-S-10	Support, 24X7, return to factory, 10 Business Day
SUPP-S-10-2YR-Term	Support, 24x7, Return to Factory Repair, 10 Business Days (2 Yr. Term)
SUPP-S-10-3YR-Term	Support, 24x7, Return to Factory Repair, 10 Business Days (3 Yr. Term)
SUPP-S-3	Support, 24X7, return to factory, 3 Business Day
SUPP-S-3-2YR-Term	Support, Strategic Response, 3 day return to factory, 2 year term
SUPP-S-3-3YR-Term	Support, Strategic Response, 3 day return to factory, 3 year term
ESSENTIAL REMOTE	
SUPP-S	Support, Strategic Response, FT Only
SUPP-S-2YR-Term	Support, Strategic Response, for ForeThought only, 2 year term
SUPP-S-3YR-Term	Support, Strategic Response, for ForeThought only, 3 year term
SUPP-S-APPS	SERVICEON, 24X7 Software Support
Support Out-of-Contract Options	
SUPP-AC	Out-of-Warranty Activation Charge: An activation fee may be added to support contracts for purchased units not under a current contract
Implement: Installation and Project Management Services	
SERV-INSTALL	Standard Installation: Ericsson Services installs and configures the equipment quoted. Includes travel & expenses. Requires a minimum of \$3,300 of a \$30,000 hardware (list price) order per site.
SERV-MISC	This product number should be used when selling professional services not listed above. Please call your Regional Services Manager or Ericsson Services Consultant to detail an exact statement of work to ensure proper pricing.
SERV-STAGING-L1	Ericsson unpacks equipment, performs all initial equipment diagnostics, verifies proper operation of all hardware components, provides basic configuration of the unit, interconnect the unit with all other units within the design for 24 hour burn-in test, repack and ship to the end customer.
SERV-STAGING-L2	Ericsson unpacks equipment, performs all initial equipment diagnostics, verifies proper operation of all hardware components, provides advanced configuration of the unit(s) as specified by the customer, interconnect the unit with all other units within the design for 24 hour burn-in test, repack and ship to the end customer.

Technical Account Management	
SUPP-TAM	Support, Technical Account Management Service provides customers with a dedicated remote technical expert.
Dedicated On-Site Field Services	
FS-RESENGR	For twelve month duration, an on-site Network Engineer participates and assists with daily operations, future planning, network management, lab analysis and training. Specifically, the on-site engineer will assist in network design, traffic and growth analysis, business needs forecasting, resolution of daily break/fix situations, change-add-moves, TAC coordination, lab testing, physical plant recommendations, network management design and implementation, TACTics online training, customer troubleshooting skill enhancement and overviews of new product functionality.

All of the products in the chart below related to the ESR5000 and ESR6000 have the following announcement dates:

End of Sale Notification	March 23, 2009
Last Time Buy (while supplies last)	May 31, 2009
Last delivery date for Last Time Buy orders	June 30, 2010
End of Sustaining Engineering Support	December 31, 2009
End of Hardware Support (RMA)	December 31, 2009

ESR5000 and ESR6000 Hardware, Software and Licenses	
Product Number	Description
ESR-5000 Series II Switch	
219-1005-000	ESR-5000 Series II Routing Switch (Includes SII Supervisor, a Power Supply, US Power cord, Option for International Power cord, Manual/Docs Kit)
219-1006-000	ESR-5000 Series II Fault Tolerant Routing Switch (Includes SII Supervisor, (3) Power Supplies, US Power cord, Option for International Power cord, Manual/Docs Kit, Redundant Fabric Controller and Element)
ESR-5000 Spare Chassis	
218-0001-000	Spare Chassis (No Power Supplies)
218-0002-000	Spare Fault-Tolerant Chassis (Fault-Tolerant Switching Elements, No Power Supplies)
ESR-5000 Spare Power Supply	
218-0013-000	Spare 400 Watt Power Supply
ESR-5000 Spare Accessories	
218-0014-000	Crossbar Element Module
218-0015-000	Crossbar Control Module
218-0018-000	Spare Front Tray Assembly/Fan
ESR-6000 Series II Switch	
219-1003-000	ESR-6000 Series II Routing Switch (Includes SII Supervisor, a Power Supply, US Power cord, Option for International Power cord, Manual/Docs Kit)
219-1004-000	ESR-6000 Series II Fault Tolerant Routing Switch (Includes SII Supervisor, (3) Power Supplies, US Power cord, Option for International Power cord, Manual/Docs Kit, Redundant Fabric Controller and Fabric Element)
ESR-6000 Spare Chassis	
219-1009-000	ESR-6000 Series II Spare AC Chassis (No Power Supplies or Supervisor) (Includes SII Fabric Controller)

219-1010-000	ESR-6000 Series II Fault Tolerant Spare Chassis (No Power Supplies or Supervisor) (Includes SII Redundant Fabric Controller and Redundant Fabric Element)
ESR-6000 Spare Power Supply	
219-0013-000	Spare Power Supply
ESR-6000 Spare Accessories	
219-0014-000	Spare Crossbar Switch Element
219-0017-000	Spare Front Fan
219-0018-000	Spare Rear Fan
219-0021-000	Series II Crossbar Fabric Controller, ESR-6000
219-0045-000	ESR-6000 Series I to Series II Upgrade Kit - Fault Tolerant
219-0046-000	ESR-6000 Series I to Series II Upgrade Kit - non Fault Tolerant
Series II Supervisor Modules & Accessories, ESR-5000 & ESR-6000	
219-0012-000	Series II Multilayer Supervisor Module
219-0020-000	16M PCMCIA Flash Storage Card for SII Supervisor
Series II Modules, ESR-5000 & ESR-6000	
219-0152-000	4-port L3 SII Gig Module with GBIC Interfaces, requires GBICs
219-0153-000	8-port L3 SII Gig Module with GBIC Interfaces , requires GBICs
219-0151-000	8-port L3 SII 1000Base-T Gigabit Module
219-0121-000	24-port L3 SII 10/100Base-TX module, RJ45
219-0124-000	24-port L3 SII 100Base-FX module, MTRJ
219-0154-000	4-port L3 SII 1000Base-T Gigabit Module
219-0122-000	48-port L3 SII 10/100Base-TX Module, Telco
219-0039-000	2 Port OC-12c L3 (SMF) with 1483 B/R
219-0040-000	2 Port OC-3c L3 (MMF) with 1483 B/R
219-0041-000	2 Port OC-3c L3 (SMF) with 1483 B/R
219-0042-000	2 Port OC-12c L3 (MMF) with 1483 B/R
219-4832-000	48-port L3 10/100Base-TX
219-0170-100	1-port L3 SII 10GLX, 10km
219-0170-400	1-port L3 SII 10G EX, 40km
Module Accessories	
219-0102-000	L3 Upgrade Key for 24p 10/100Base-TX, 219-0101-000
219-0108-000	L3 Upgrade Key for 24p 100Base-FX, 219-0107-000
219-0168-000	L3 Upgrade Key for 4p 1000Base-T, 219-0164-000
219-0104-000	L3 Upgrade Key for 48p 10/100Base-TX Telco, 219-0103-000
219-0165-000	L3 Upgrade Key for 8p 1000Base-T, 219-0161-000
219-0166-000	L3 Upgrade Key for 4p Gig GBIC, 219-0162-000
219-0167-000	L3 upgrade key for 8p Gig GBIC, 219-0163-000
219-0031-000	1483 Upgrade key for ESR ATM Blade
219-0000-256	256MB Memory Upgrade kit for a Series II Supervisor, required for release 6.0 and later
219-0000-060	Security License for SSL, SSH, and SNMPv3, for ESR Supervisor release 6.0 and above (requires 256MB memory)

The service offering in the following chart has these announcement dates:

End of Sale Notification	March 23, 2009
Last Time Buy (while supplies last)	June 30, 2009
End of Support	June 30, 2010

Service and Support Products	
<i>Product Number</i>	<i>Description</i>
Support Services	
SUPP-S-PS	Support, 24X7, 4 hr. parts and service

The services in the chart below have already had the following announcement dates:

End of Support	March 31, 2009
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Service and Support Products	
<i>Product Number</i>	<i>Description</i>
Support Services	
ESSENTIAL SUPPORT PRO (ESP)	
SUPP-S-A-PLUS	ESP Proactive Technical Support with Next Business Day Parts
SUPP-S-PO-PLUS	ESP Proactive Technical Support with Four hour Parts
SUPP-S-PS-PLUS	ESP Proactive Technical Support with Four hour parts and service
SUPP-S-3-PLUS	ESP Proactive Technical Support with Three Business Day Repair
SUPP-S-10-PLUS	ESP Proactive Technical Support with Ten Business Day Repair

The training courses in the chart below have the following announcement dates:

End of Sale Notification	March 23, 2009
Last Time Buy	September 30, 2009
Last delivery date	December 31, 2009

Product Training Courses	
<i>Product Number</i>	<i>Description</i>
Product Training Courses	
LZU 108 6960	PEN 210E Enterprise ATM ASX/TNX Switch
LZU 108 6961	PPN 211E Public ATM ASX/TNX Switch I & M
LZU 108 6962	PNM 101E ServiceOn Data Operations & Administration
LZU 108 6963	PPN 620E BXR48000 Switch Router Installation Operations & Maintenance
LZU 108 6964	TPE 808E ATM Signaling, traffic Management & Diagnostics
LZU 108 6965	PEN 310E Enterprise ATM BRX400/1600 Multiservice Switch
LZU 108 6965M	PEN 310E Enterprise ATM BRX400/1600 Multiservice Switch Abridged
LZU 108 6966	PPN 311E Public ATM BRX400/1600 Multiservice Switch
LZU 108 6967	PEN 410E BXR5000/1000 Installation Operation & Maintenance
LZU 108 6969	EPN 211E Public ATM Switch Product Specialist Exam
LNA 108 7009	PTN 230E ViPr Installation, Operation & Maintenance