

Compatibility of Components in Cisco DSL Equipment

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Introduction

This document is intended to clarify how Cisco DSL equipment is used and to describe the compatibility of components used in Cisco DSL equipment.

Before You Begin

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

Prerequisites

There are no specific prerequisites for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Chipsets

The following table specifies the chipsets used in Cisco DSL customer premises equipment (CPE).

Cisco Device	Chipset
675 ADSL	Globespan
677 ADSL	ADI
678 ADSL	Globespan
1417 ADSL	Alcatel
802 & 804 IDSL	Motorola
827 ADSL	Alcatel
SOHO77 ADSL	Alcatel
WIC-1 ADSL Card	Alcatel

The following table specifies the chipsets used in line cards in Cisco ADSLAMs.

Line Card	Chipset
2-port CAP	Globespan
4-port DMT-II	ADI
4-port Flexi	Globespan
8-port IDSL	N/A
8-port DMT-II	Globespan
2-port DMT-II	ADI

Compatibility Between CPE and Line Cards

Carrierless Amplitude and Phase Modulation

The Cisco routers using CAP encoding will train to the following:

- Cisco 6100 (NI-1 only) with 2xCAP
- Cisco 6100 (NI-1 and NI-2) with 4xFlexi
- Cisco 6130 (NI-1) with 4xFlexi
- Cisco 6130 (NI-2) with 4xFlexi
- Cisco 6160 (NI-2 only) with 4xFlexi

- Cisco 6260 (NI-2 only) with 4xFlexi

The following table shows line card compatibility for Cisco CAP CPE.

CAP CPE	2-port CAP card	4-port Flexicard
6100 NI-1	Yes	Yes
6130 NI-1	No	Yes
6130 NI-2	No	Yes
6160 NI-2	No	Yes
6260 NI-2	No	Yes

Supporting Documentation

4xFlexi on Cisco 6100 (NI-1 and NI-2) - [Quad-Port Flexi ATU-C Line Card FRU Installation and Replacement Notes](#)

4xFlexi on Cisco 6130 (NI-1) - [Release Notes for the Cisco 6100/6130 with NI-1 System Release 3.2.3](#)

4xFlexi on Cisco 6130 (NI-2) - [Product Overview and Introduction to the Cisco 6130 with NI-2 System](#)

4xFlexi on Cisco 6160 (NI-2 only) - [Quad-Port Flexi ATU-C Line Card FRU Installation and Replacement Notes](#)

4xFlexi on Cisco 6260 (NI-2 only) - [Quad-Port Flexi ATU-C Line Card FRU Installation and Replacement Notes](#)

Discrete Multi-Tone Issue 2

Cisco routers using Discrete Multi-Tone Issue 2 (DMT-II) encoding will train to the following:

- Cisco 6100, Cisco 6130 with NI-1 and 2-port DMT line cards
- Cisco 6130 with NI-2 and 4-port DMT cards and 4-port Flexicards
- Cisco 6160 with NI-2 and 4-port Flexicards
- Cisco 6015, 6160, and 6260 with NI-2 and 8-port DMT cards

Currently, there is no support for the following:

- 2xDMT for NI-2
- 4xDMT on NI-1 or the Cisco 6100
- 4xDMT on the Cisco 6160

Note: 2-port DMT cards require a minimum code level of 2.4.1 to work with the Cisco 6100 or Cisco 6130 ADSLAM.

The following table shows line card compatibility for Cisco DMT-II CPE.

DMT-II CPE	Cards			
	2-port DMT	4-port DMT	4-port Flexi	8-port DMT
6100 NI-1	Yes	No	Yes	No
6130 NI-1	Yes	No	Yes	No
6130 NI-2	No	Yes	Yes	No
6160 NI-2	No	No	Yes	Yes
6260 NI-2	No	Yes	Yes	Yes
6015 NI-2	No	No	Yes	Yes

Supporting Documentation

2xDMT on 6100 (NI-1 only) - [Release Notes for the Cisco 6100/6130 with NI-1 System Release 3.2.3](#)

4xFlexi on 6100 (NI-1 and NI-2) - [Quad-Port Flexi ATU-C Line Card FRU Installation and Replacement Notes](#)

2xDMT on Cisco 6130 (NI-1 only) - [Release Notes for the Cisco 6100/6130 with NI-1 System Release 3.2.3](#)

4xDMT on Cisco 6130 (NI-2 only) - [Product Overview and Introduction to the Cisco 6130 with NI-2 System](#)

4xFlexi on Cisco 6130 (NI-1 and NI-2) - [Quad-Port Flexi ATU-C Line Card FRU Installation and Replacement Notes](#)

4xFlexi on Cisco 6160 (NI-2 only) - [Upgrading and Maintaining the Cisco 6160 System](#)

8xDMT on Cisco 6160 (NI-2 only) - [Octal-Port DMT ATU-C Line Card](#)

4xDMT on Cisco 6260 (NI-2) - [Quad-Port DMT-2 ATU-C Line Card FRU Installation and Configuration Notes](#)

4xFlexi on Cisco 6260 (NI-2) - [Release Notes for Cisco IOS Release 12.1\(6\)DA1 for Cisco DSLAMs with NI-2](#)

8xDMT on Cisco 6260 (NI-2) - [Octal-Port DMT ATU-C Line Card](#)

4xFlexi on Cisco 6015 (NI-2) - [Product Overview and Introduction to the Cisco 6015 System](#)

8xDMT on Cisco 6015 (NI-2) - [Octal-Port DMT ATU-C Line Card](#)

Single-pair High-bit-rate Digital Subscriber Line (G.SHDSL)

Cisco routers using G.SHDSL have CPE intermixing incompatibilities. See Field Notice: G.shdsl Release 1.0 CPE Intermixing Incompatibilities for more information.

Supporting Documentation

8xG.SHDSL on Cisco 6015/6160/6260 - [Octal-Port G.SHDSL SHTU-C Line Card](#)

8xG.SHDSL on Cisco 6015/6160/6260 - [Octal-Port G.SHDSL SHTU-C Line Card FRU Installation and Replacement Notes](#)

Data Sheet Cisco 828 G.shdsl Router - [Data Sheet Cisco 828 G.shdsl Router](#)

Data Sheet Cisco SOHO 78 G.shdsl Router - [Data Sheet Cisco SOHO 78 G.shdsl Router](#)

Data Sheet G.shdsl WAN Interface Card for the 1700 Series - [Data Sheet G.shdsl WAN Interface Card for the 1700 Series](#)

Data Sheet G.shdsl WAN Interface Card for the Cisco 2600/3600 Series - [Data Sheet G.shdsl WAN Interface Card for the Cisco 2600/3600 Series](#)

Recommended Pairings of Cisco CPE and Line Cards

Note: In the following two tables, the number in parentheses references a link to additional information listed in the "Supporting Documentation" section. For example, (1) corresponds to "Release Notes for the Cisco 6100/6130 with NI-1 System Release 3.2.3." The Supporting Documentation section follows the tables.

Recommended ADSL Cisco CPE-Line Card Matrix

Module	Recommended CPE	Alternative CPE – Works with Limitations
Quad-port flexi (CAP)	Cisco 678 CBOS 2.3.0/2.3.5 (1) Cisco 675 CBOS 2.3.0/2.3.5 (1) Cisco 675 CBOS 2.2.0 (no 17 kilobaud/68 kilobaud) (1) Cisco 675 CBOS 2.1.0 (no 17 kilobaud/68 kilobaud) (1) Cisco 675 CBOS 2.0.1 (no 17 kilobaud/68 kilobaud) (1)	Cisco 605 PCI 210 Production (1)
Quad-port flexi	Cisco 678 CBOS 2.3.0/2.3.5 (1, 3) Cisco 827 (3) Cisco 677 (3) Cisco SOHO77 Cisco 1417	None

(DMT)	Cisco WIC-1ADSL	
Quad-port flexi (DMT G.lite)	Cisco 678 CBOS 2.3.0/2.3.5 (1)	None
Dual-port CAP	Cisco 678 CBOS 2.3.0/2.3.5 (1) Cisco 675 CBOS 2.3.0/2.3.5 (1) Cisco 675 CBOS 2.2.0 (no 17 kilobaud/68 kilobaud) (1) Cisco 675 CBOS 2.1.0 (no 17 kilobaud/68 kilobaud) (1) Cisco 675 CBOS 2.0.1 (no 17 kilobaud/68 kilobaud) (1)	Cisco 605 PCI 210 Production (1)
Dual-port DMT (ADI)	Cisco 677 (1)	Cisco 627 (1)
Dual-port DMT G.lite (ADI)	Not Supported (1)	None
Quad-port STU-C	Cisco 673 (Ethernet to DSL) (1)	Cisco 633 (Frame Relay to DSL) (1)
Octal-Port DMT ATU-C Line Card	Cisco 677 (2) Cisco 678 (2) Cisco 827 (2) Cisco 1417 (2) Cisco SOHO77	
Quad-Port DMT (ADI)	Cisco 677	

Recommended IDSL Cisco CPE-Line Card Matrix

Module	Recommended CPE
8-port IDSL ITU-C	Cisco 802 IDSL Router (4) Cisco 804 IDSL Router (4)

Supporting Documentation

1. [Release Notes for the Cisco 6100/6130 with NI-1 System Release 3.2.3](#)
2. [Octal-Port DMT ATU-C Line Card](#)

3. [Quad-Port Flexi ATU-C Line Card Enhancements](#)
 4. [Cisco 6160 8-Port IDSL ITU-C Line Card Installation and Configuration](#)
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Related Information

- [DSL Modem/Router Interface Pinouts and Status LED Descriptions](#)
 - [Technical Support & Documentation - Cisco Systems](#)
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