



Product Bulletin

X1131A-R6, X1130A-R6, and X1128A-R6 FC Target Cards

Revision History

June 16, 2008 - Initial version

January 9, 2009 - Added X1131A (Replaces PB-X1130A-R6-X1128A-R6-0808)

January 13, 2009 – Correct max X1130 for FAS3100 series in Data ONTAP® 7.3 (from Qty 3 to 2)

January 19, 2009 – Warning about restriction in February tool (regarding FAS3040/3070)

January 20, 2009 – Removed MetroCluster restrictions (Section 1)

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

X1131A, X1130A-R6, and X1128A-R6 FC Target Cards

This product bulletin announces the availability of the PCI-Express version of the Fibre Channel target cards for Data ONTAP for first customer ship.

The **X1128A-R6** card is a RoHS-compliant PCIe 2-port optical 4Gbps FC target card.

- Supported on FAS3040, V3040, FAS3070, V3070, FAS3100, V3100, FAS6000, and V6000 series platforms.

The **X1130A-R6** card is a RoHS-compliant PCIe 4-port optical 4Gbps FC target card.

- Supported on FAS2050, FAS3040, V3040, FAS3070, V3070, FAS3100, V3100, FAS6000, and V6000 series platforms.

The **X1131A-R6** card is a RoHS-compliant PCIe 2-port optical 8Gbps FC target card.

- Supported on FAS2050, FAS3040, V3040, FAS3070, V3070, FAS3100, V3100, FAS6000, and V6000 series platforms.

2. What's New?

NetApp is releasing our first 8Gb target card, which enables customers to double the speed of target ports. The

card will autonegotiate down to 4Gb or 2GB, depending on the device that it is attached to.

In the August 2008 Quote Tool NetApp released a quad port FC target card, which enables customers to double the target port count on NetApp controllers.

The target cards can be attached directly to host servers or to a Fibre Channel switch that is then connected to host servers. An FCP license is required to use any target cards. When customers use target cards, they cannot use the onboard Fibre Channel ports as targets. Onboards and cards are mutually exclusive.

Data ONTAP 7.3.1 is required to run X1131A-R6 dual port target cards.
Data ONTAP 7.3 is required to run X1130A-R6 quad port target cards.

The FAS2050 does not support X1128A-R6 because there are already two targets per controller using the onboards, and the X1128A-R6 does not increase the number of ports. If the customer needs only two targets, it's better to use the single slot for a quad port disk HBA. The FAS2050 supports the X1130A-R6, for a total of four targets per controller. The FAS2050 also supports one X1131A-R6 for 8Gb connections.

In Data ONTAP 7.3, the FAS3040 and FAS3070 support two target cards. In Data ONTAP 7.3.1, you can use a maximum of three X1130A-R6s, enabling the customer to raise the target port count to 12 per controller. Using three X1131A-R6s enables the customer to have six 8Gb target ports. The February Quote Tool will not allow more than two cards in a configured system. We are not going to fix this because the 3040/3070 will be removed from the March tool. If you need a third card you will have to order it as an FRU from Add Parts and install it yourself.

The FAS3100 series allows two X1128A-R6s. In Data ONTAP 7.3, the customer is allowed to have two X1130A-R6s, for eight ports. In Data ONTAP 7.3.1, up to four X1130As are allowed in these systems, for 16 ports. A maximum of four X1131A-R6s is allowed in FAS3100 series platforms.

The FAS6000 series allows four X1128A-R6s. In Data ONTAP 7.3, the customer is allowed to have three X1130A-R6s, for 12 ports. In Data ONTAP 7.3.1, up to four X1130As are allowed in these systems, for 16 ports. A maximum of four X1131A-R6s is allowed on the FAS6000 series.

3. Sales Tools (Sales Guides, Training Presentations, SE Presentations)

None available at this time.

4. Customer-Ready Tools (Customer Presentations, Datasheets)

None available at this time.

5. System Requirements

The following table lists the platforms that support the various target cards.

Part #	Description	Category	Platform Support	Data ONTAP Support
X1128A-R6	Card,FCP,Target,2-Port, 4Gb,PCIe,R6	A	FAS6000, V6000, FAS3100, V3100, FAS3070, V3070, FAS3040, V3040	7.2 and later
X1128A-R6-C	Card,FCP,Target,2-Port, 4Gb,PCIe,-C,R6	A	FAS6000, V6000, FAS3100, V3100, FAS3070, V3070, FAS3040, V3040	7.2 and later
X1130A-R6	Card,FCP,Target,4-Port, 4Gb,PCIe,R6	A	FAS6000, V6000, FAS3100, V3100, FAS3070, V3070, FAS3040, V3040, FAS2050	7.3 and later

X1130A-R6-C	Card,FCP,Target,4-Port, 4Gb,PCIe,-C,R6	A	FAS6000, V6000, FAS3100, V3100, FAS3070, V3070, FAS3040, V3040, FAS2050	7.3 and later
X1131A-R6	Card,FCP,Target,2-Port, 8Gb,PCIe,R6	A	FAS6000, V6000, FAS3100, V3100, FAS3070, V3070, FAS3040, V3040, FAS2050	7.3.1 and later
X1131A-R6-C	Card,FCP,Target,2-Port, 8Gb,PCIe,-C,R6	A	FAS6000, V6000, FAS3100, V3100, FAS3070, V3070, FAS3040, V3040, FAS2050	7.3.1 and later

6. Product Information

Product Availability

X1128A-R6 has been available to quote since the November 2006 Quote Tool release in Configured Systems or Add Parts directly, or by using the "HBA with Cables" wizard. X1130A-R6 was available to quote with the August 2008 Quote Tool release in Configured Systems or Add Parts directly, or by using the "HBA with Cables" wizard. X1131A-R6 is available to quote with the February 2009 Quote Tool release in Configured Systems or Add Parts directly, or by using the "HBA with Cables" wizard.

7. Regulatory Compliance

Products need to be validated against the NetApp Safety/EMI Regulatory Compliance List prior to order submission. This is required to make sure that products are being sold only in the countries in which NetApp has received regulatory compliance certification.

8. Warranty and Service

The standard three-year warranty period starts and ends with the warranty of the platform the card is plugged into.

Contact information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.