

# WANport™ T3 Concentrators

## When to Use a WANport T3 Concentrator

- When you need more T3 ports on your edge routers
- When you want to offer multi-T1 services
- When you need edge router redundancy



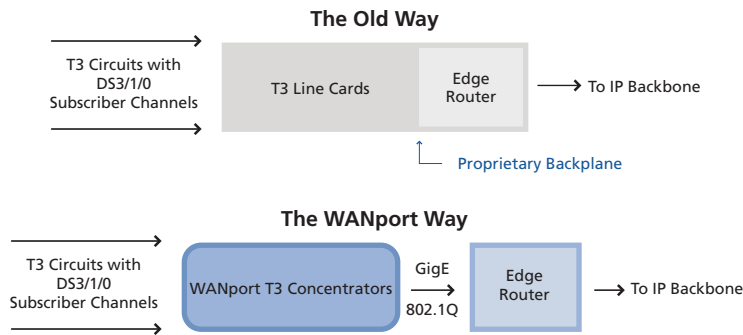
## Key Features and Benefits

Feature	Benefit
High-density T3 ports	Reduces price per port to one-fourth that of edge router T3 line cards.
DS3/1/0 channelization	Supports a diverse mix of full-rate DS3, rate-limited DS3, NxDS1, DS1, NxDS0 and DS0 subscriber access channels.
Gigabit Ethernet trunks	Connects to all popular edge routers. Multiplies edge router I/O capacity by a factor of 5 or more. Replaces expensive T3 line cards in routers with low-cost GigE cards.
802.1Q Virtual LANs	Maintains subscriber separation on GigE trunks.
Layer 2 forwarding of subscriber traffic	Makes the WANport Concentrator transparent to IP traffic. Preserves IP Service Provider's existing operational procedures.
Dual GigE trunks	Enables use of redundant edge routers for high availability IP service with auto-failover.
Cisco IOS-compatible command line interface	Eliminates the new vendor learning curve. Allows reuse of existing Cisco CLI scripts.
Multilink PPP and Multilink Frame Relay bonding	Supports multi-T1 services without burdening edge routers.
Packet-based DS3 rate limiting	Overcomes shortcomings of subrate DS3.
CoS/QoS	Supports differentiated services like VoIP.
Performance monitoring, loopback and BERT	Provides comprehensive diagnostic tools.
Standard SNMP MIBs	Allows management by popular platforms and applications.
1RU NEBS packaging	Supports low-cost, incremental POP expansion.

## Key Features and Benefits

- Price per port is one-fourth that of edge router T3 line cards
- Multiplies edge router subscriber capacity by a factor of 5 or more
- Relieves edge routers of processor-intensive tasks like multi-link bonding
- Compatible with all major router makes and models
- Enables edge router redundancy for high availability IP services

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## Feature Comparison

	WAN Line Cards	WANport Concentrators
Channelized T3 price per port (list)	\$16,000	<b>\$4,000</b>
Clear channel T3 price per port (list)	\$6,000	<b>\$2,300</b>
Router port density	2 to 12 T3's per slot	<b>12 to 36+ T3's per slot</b>
Router independent	No	<b>Yes</b>
Supports 1+1 router redundancy	No	<b>YES, with auto-failover<sup>1</sup></b>
High performance	No	<b>Wire-speed throughput. Offloads router CPU.</b>

<sup>1</sup>Requires HSRP or VRRP support by edge router

## Cost Comparison

	Cisco 7200	Cisco 7500	Cisco 10000	Cisco 12000	Juniper M40	WANport Concentrators
Channelized T3	\$168,000 <sup>2</sup>	\$201,000 <sup>3</sup>	\$196,000 <sup>4</sup>	\$189,000 <sup>5</sup>	\$210,000 <sup>6</sup>	<b>\$48,000<sup>7, 13</sup></b>
Clear channel T3	\$75,000 <sup>8</sup>	\$108,000 <sup>9</sup>	\$90,000 <sup>10</sup>	\$65,000 <sup>11</sup>	\$87,000 <sup>12</sup>	<b>\$28,000<sup>13, 14</sup></b>

<sup>2</sup>6 PA-MC-2T2+ line cards

<sup>3</sup>2 6CT3-SMB line cards

<sup>4</sup>6 PA-2T3+ line cards

<sup>5</sup>1 12EDS3-SMB line card

<sup>6</sup>Cost of edge router GigE line card not included

<sup>7</sup>6 PA-MC-2T2+ line cards; 3 VIP-2 interface processors

<sup>8</sup>3 P-4CHDS3 line cards; 1FPC-E concentrator

<sup>9</sup>6 PA-2T3+ line cards; 3 VIP-2 interface processors

<sup>10</sup>3 P-4DS3 line cards; 1 FPC-E concentrator

<sup>11</sup>2 ESR-6CT3 line cards

<sup>12</sup>1 WANport-12ChT3

<sup>13</sup>2 ESR-8E3/DS3 line cards

<sup>14</sup>1 WANport-12T3

## Order Numbers

Model	Configuration
WANport-12T3	12 clear channel T3 ports for 12xDS3
WANport-6ChT3	6 channelized T3 ports for 6xDS3, 168xDS1, 510xDS0
WANport-12ChT3	12 channelized DS3 ports for 12xDS3, 336xDS1, 510xDS0

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We Give IP Service Providers an Edge