

Q4'97 Remote Access Market Share Results

Based on Dell'Oro Group Report 2/18/98



Summary of Q4'97 Market Share Results

Ascend is the Recognized Remote Access Concentrator Market Leader Again in Q4'97

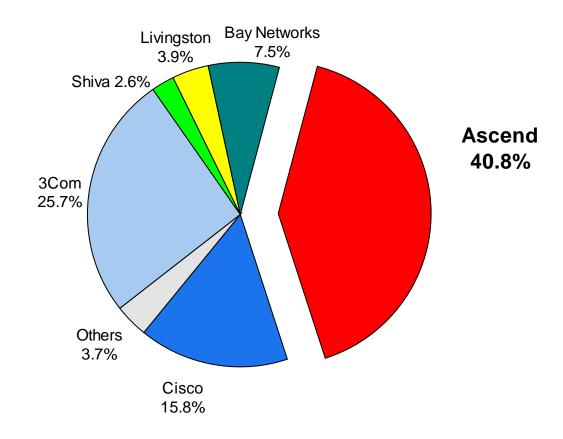
- ☐ 40.8% share of analog port shipments
- ☐ 76.8% share of ISDN PRI B-channel shipments
- ☐ 48.8% share of T1 DS0 shipments
- Ascend's market share has been increasing steadily since 1995
- ☐ Ascend has shipped 5.5 million RAC ports since 1995 - over 3.3 million shipped in 1997



Ascend Maintains Leadership in Analog Port Shipments

Worldwide Market Share of Total Remote Access Concentrator Analog Port Shipments

based on Q4'97 shipments

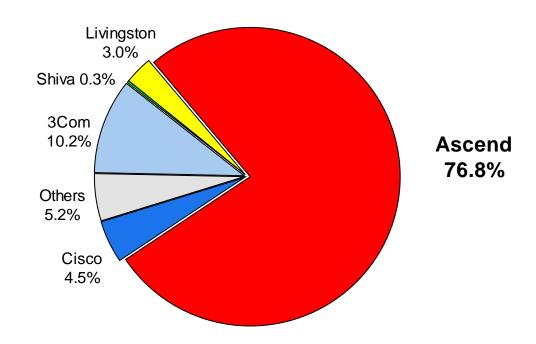




Ascend Dominates ISDN PRI B-channel Shipments

Worldwide Market Share of Total Remote Access Concentrator ISDN PRI B-channel Shipments

based on Q4'97 shipments

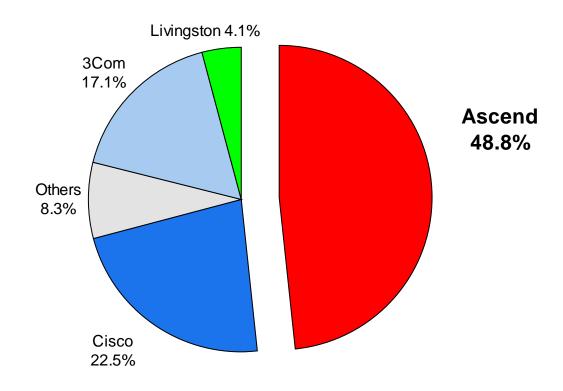




Ascend is the Leader in Estimated T1 Shipments

Worldwide Market Share of Total Remote Access Concentrator T1 DS0 Shipments

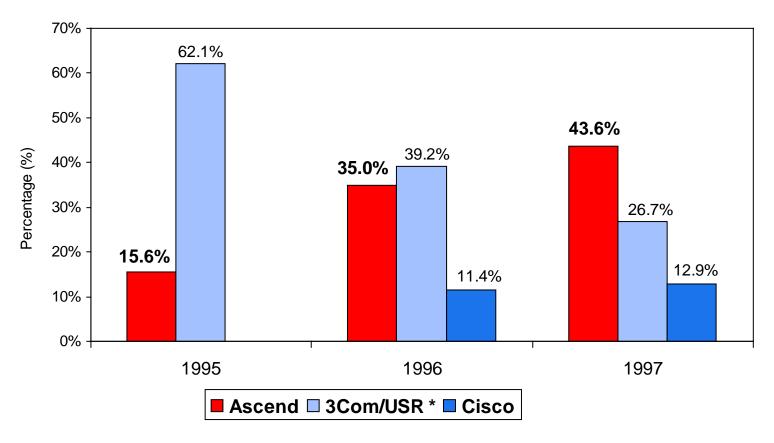
based on Q4'97 shipments





Ascend Steadily Gains Market Share

Access Concentrator Analog Port Shipment Market Share 1995-1997

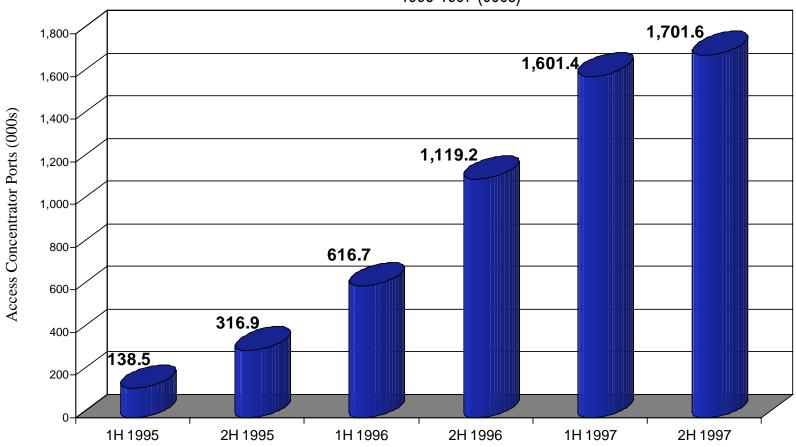


* Reflects 3Com/USR 1997 merger



Ascend's Access Concentrator Installed Base Approaches 5.5 Million Ports

Ascend Communications: Worldwide Access Concentrator Port Shipments 1995-1997 (000s)



Ascend shipped over 3.3 million RAC ports in 1997

Source: Ascend Company data