



secure, reliable voice and data aggregation

Transport of Mission-critical
Applications in a
Military Environment

The Broadmore Solution: Eliminating the Guesswork.

Improving network reliability and service availability while simplifying operations and management under strict security requirements – all while gaining the ability to grow and expand old legacy products with the new, including encrypted, real-time data, satellite and IP-enabled services – these are the hallmarks of the Broadmore Platform from Carrier Access.

Reliability? Our products are held to the highest standards, having received certification and approval from agencies such as the Defense Information Systems Agency (DISA) and the Joint Interoperability Test Command (JITC). With unique redundancy, we provide reliable service availability through multiple paths. Security? As an approved hardware provider, our products protect traffic and network nodes securely. Predictability? All traffic conditions are predictable with our QoS guarantees, eliminating costly and time-consuming data errors and drop-offs. Flexibility? With the breadth of services and interfaces offered, we're more flexible. Supportability? With interconnected management, there's less to learn, so we're more supportable in any environment.

FLEXIBLE SUPPORT FOR MISSION-CRITICAL, REAL-TIME APPLICATIONS

The Broadmore® 1700 is a 17-slot, low-speed access shelf that offers a uniquely economical means of provisioning, grooming, and routing DS3, DS1, E3, E1 and high-speed serial data circuits using logical ATM connections. The cost and complexities of equipping and managing SONET and Digital Cross-Connect (DCS) circuits are replaced by the speed, capacity, and cost improvements of logical ATM circuit provisioning – leveraging existing SONET optical networks. TDM-to-ATM conversion is accomplished using standards-based ATM Circuit Emulation Service (CES) supporting both Permanent Virtual Circuits (PVCs) and Switched Virtual Circuits (SVCs). The integrity of TDM traffic is maintained, while providing the benefits and efficiency of ATM transport for converged voice and data access across stable networks.

The Broadmore's flexibility is extended by providing additional command security including user authentication, audit trails, session privacy and user-editable SNMP v3 community strings. The latest stringent government security requirements are supported, including RSA SecurID™ for user authentication and SecSH network and management security. The Broadmore is validated to FIPS 140-2, Level 1 and is Common Criteria EAL-3 validation pending.

VIRTUALLY ELIMINATE LEGACY TDM DIGITAL CROSS-CONNECT SYSTEMS

For smaller scale deployments, the Broadmore 500 offers most of the same functionality as the 1700 in just four rack units (RU) of space. Using traditional equipment, the same power would require the equivalent of a 3:1:0 DCS for NxDS0 grooming, a SONET Terminal for T1 and DS3 electrical distribution, a channel bank for low-speed serial links, and possibly a router for tunneling high-speed serial link.

CRITICAL COMMUNICATIONS SUPPORT

Designed to meet the specific needs of Federal, DoD, and Intel customers, the Broadmore platform supports asymmetrical data rates and encrypted networks and is the ideal platform for applications such as SATCOM extensions, supporting critical links, and secret and customized communications. It enables disaster recovery and circuit density improvements and supports network, global and local timing and the HSSI and CBI interfaces support Crypto re-sync for those environments that require added security. The Broadmore HSSI module provides serial transport of ATM voice and data traffic at rates up to 52 Mbps over SATCOM links, microwave, or other fixed wireless deployments where DS1, DS3, OC-3c, or OC-12c network interfaces are not an option. A range of interfaces enables transportation of serial and packetized data such as encrypted communication and telemetry real-time to multiple locations. The Broadmore also provides a high-speed cell-bearing network interface to encrypted radio, SATCOM or LOS. The new HSAM module supports 274 Mbps serial data streams to OC-12 c interfaces.

REMOVE THE GUESSWORK

Any questions about network reliability and service availability are eliminated with the Broadmore 1700 and 500. The ability to simplify operations and management under strict security requirements, and gain the capacity to grow and expand old legacy products with the new, including encrypted, real-time data, satellite and IP-enabled services, is assured.

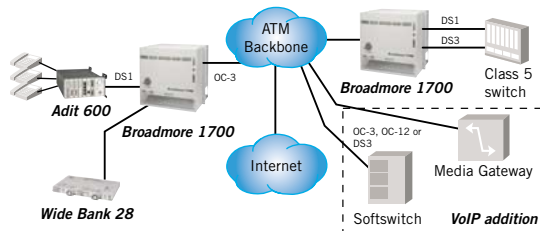
The Broadmore 1700 and 500...secure, reliable, predictable, flexible, and supportable.



BROADMORE 1700/500 SERIAL ACCESS SHELF

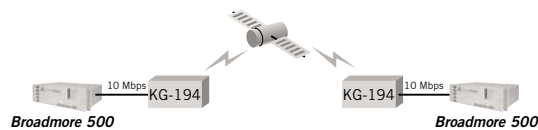
- 17-Slot or 5-Slot Chassis
 - (2) Network Interface Modules (NIM)
 - (2) CPUs Modules
 - (1) Alarm Module
 - (12) Service Access Modules (SAM)
- Redundancy
 - (1) Redundant CPU
 - (1) Redundant NIM
 - (1) Redundant Power Supply
 - (1) Redundant BITS Clock
- Certifications
 - JITC certified, DISA IA, FCC, UL approval
- Security
 - SecureID, SecureShell v2, Auditing
 - FIPS 140-2, Level 1
 - SNMP v3
 - Common Criteria EAL-3 pending
 - IPv6 ready

DELIVER MISSION-CRITICAL VOICE SERVICE



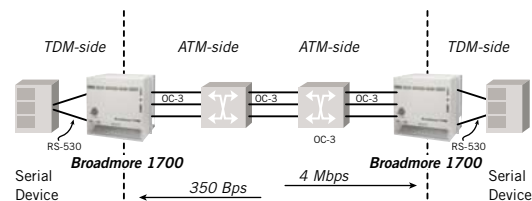
- Bulk termination of DS-1s, DS-3s or structured services
- Single shelf multiple services from low-speed to high speed
- Provisioning of traditional TDM services while benefiting from ATM QoS
- Cost-effective deployment of services over fiber
- Reliable, guaranteed transport for VoIP

ENCRYPTED CIRCUITS



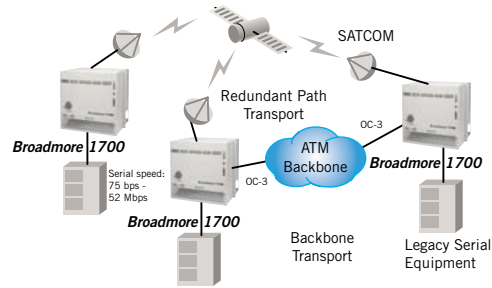
- KG re-sync supported
 - CBI & HSSI-CBI modules
 - Re-sync "ON" time 0 – 6 second duration in 0.1 second increments
 - Re-sync "Off" time 0 – 60 seconds in 0.1 increments
 - JITC Certified with several flavors of KG

CUSTOM COMMUNICATIONS



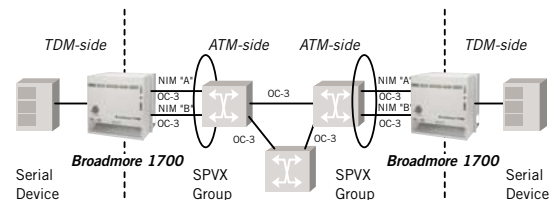
- Adaptive timing
- QoS preserved
- Oddball bit rates
- Single clock source across all 8 interfaces
- Single muxed cell stream consisting of up to 8 channels
- Auto provisioning of channels at the de-mux side
- Up to 24 Mbps per aggregate stream

NETWORK SERVICES EXTENSION OVER SATCOM



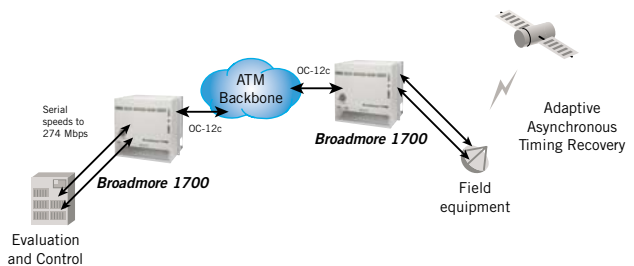
- Network Services extension over SATCOM
- Bulk serial transport over SATCOM: "legacy applications live on"
- Single Transport System (STS) "once a cell stays a cell end-to-end"
- QoS extended over the satellite for voice, video and data
- Crypto re-sync ensures classified stays classified and the network keeps running

GENERATE MISSION-CRITICAL CIRCUIT RESILIENCY



- Distributed Protection Switching
- Logical and physical redundancy between the switch and access shelf
- Unprecedented SLA delivery for TDM and Serial link
- Maximum network availability
- APS functionality through ATM technology
- Guaranteed interoperability
- Simple configuration

TRANSPORT SERIAL DATA ACROSS ATM NETWORKS



- Serial data transport from 200 Kbps to 274Mbps in 1Kbps increments for a variety of mission critical applications
- Adaptive timing and recovery supported for maximum reliability
- A variety of internal diagnostic and test capabilities (including BERT) for network fault isolation
- Single port Low Voltage Differential Signal (LDVS) interface
- Provides a secure, single vendor solution for serial data transport over ATM networks

for more information

on the Carrier Access Federal Government, DoD, and Intel Programs,

contact us

AIRLINX Communications, Inc.
Box 253
Greenville, NH 03048
E-mail: sales@airlinx.com
Tel: (888) 224-6814
Fax: (603) 878-0530

