

## Ribbon Communications Tenor AFM200 2 FXS / 2 FXO Gateway



Product Name: Ribbon Communications Tenor AFM200 2 FXS / 2 FXO Gateway

Manufacturer: -

Model Number: AFM-200

Please Note: This product has been discontinued. Please see the other Ribbon VoIP Gateways for an available alternative.

Ribbon Communications (Formerly Sonus Quintum) Tenor AFM200 2 FXS / 2 FXO Gateway  
The Sonus Quintum AFM200 2 FXS / 2 FXO Gateway allows small businesses, SOHOs, and branch offices with analog telephony infrastructures the ability to utilise the VoIP network to reduce costs.

### Key Features

- 1/2 Telephony Interfaces: 2 x FXS, 2 x FXO
- 1/2 Auxiliary Ports: 10/100 Ethernet, RS-232, DIAG
- 1/2 Concurrent Calls: up to 2
- 1/2 Protocol Support: DHCP, DNS, H.323, SIP, SNMP, TCP, UDP
- 1/2 SIP Endpoints: up to 40
- 1/2 Chassis Type: 1U form factor
- 1/2 Echo Cancellation: yes
- 1/2 Manageable: yes

The Ribbon Communications AFM200 2 FXS / 2 FXO Gateway is the simplest path to smarter, better communications for small offices and branch offices: superior Voice over IP sound quality, reliable security, cost-saving features and full integration with your existing PBXs and analog phones.

The Ribbon Communications AFM200 2 FXS / 2 FXO Gateway supports any-to-any connectivity between analog, H.323 and SIP devices, enabling branch offices to rapidly migrate analog phones onto SIP-based networks and communicate seamlessly with Sonus session border controllers (SBCs). Each AF Series switch supports up to 40 unique endpoints and 900 calls per hour, making it the right choice for multi-protocol communications in small but busy locations.

Ribbon Communications Tenor AFM200 - Technical Specifications  
System Capabilities (per Switch)

### 1/2 Sessions

- 1/2 Up to eight simultaneous VoIP calls
- 1/2 Maximum call rate: 900 calls per hour

### 1/2 Business Continuity/Survivability(for AFM and AFT Series only)

- 1/2 SIP outbound proxy
- 1/2 Supports up to 40 SIP endpoints

### 1/2 AFM200 = 2 VoIP calls = 2 FXS, 2 FXO

### Management Capabilities

- 1/2 Operations, Administration & Management

## Ribbon Communications Tenor AFM200 2 FXS / 2 FXO Gateway

- Auto-provisionable
- GUI-based Configuration Manager for multiple, remote switches
- GUI-based alarm monitoring, call monitoring and CDR (call detail record) monitoring
- Remote management via external
- Remote Management Session Server
- SNMPv2 Agent
- Command Line Interface (CLI) configuration via Telnet or RS-232 connection
- Call Detail Record (CDR) generation
- Authentication
- IVR/RADIUS server support for AAA with integrated multilingual IVR+
- ANI authentication (Types 1 and 2)

### Media Services

- Auto codec negotiation: G.711, G.723.1, G.726, G.729a/b
- Modem support with G.711
- G.168 Echo Cancellation with standard 128 ms tail length
- Adaptive Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Fax support: Group III at 2.4, 4.8, 7.2, 9.6 and 14.4 Kbps using industry standard T.38 (Super G3 compatible up to 33.6 Kbps)
- Automatic call type detection – voice, fax or modem

### Signaling

- Any-to-any connectivity: SIP<->SIP, SIP<->H.323, H.323<->H.323, TDM<->TDM, SIP<->TDM, H.323<->TDM
- Tandem/TDM switching
- Support for multiple SIP User Agents(RFC 3261)
- SIP supplementary services
- DTMF signaling via RFC 2833 or SIP Info
- SIP header manipulation: automatic appending and stripping of digits to dialed numbers
- Loop Start, Reverse Battery and Battery Disconnect
- Coding: A law, I law

### Protocol Support

- DHCP
- DNS
- H.323
- SIP
- SNMP
- TCP
- UDP

### Routing/Policy

- Transparent MultiPath Call Routing
- Least Cost Routing (via Sonus PSX®; Centralized Routing and Policy Server)
- Forced IP routing and IP port mapping

## Ribbon Communications Tenor AFM200 2 FXS / 2 FXO Gateway

- Four types of configurable routing databases: Bypass Directory Numbers, Hunt Local Directory Numbers, Hop-Off Directory Numbers and Static Routes
- Multiple dial plan options: public/private dial plan, user-programmable dial plan
- Answer and disconnect supervision
- Pass-through support for calls to tollfree, local and special service numbers (e.g., emergency services)
- Type 1 Caller ID/Name Support (Telcordia, ETSI, NTT and DTMF)
- SIP REFER method

### Security

- NAT Access & network address translation firewall protection
- IP packet filtering
- G.168 Echo Cancellation with standard 128 ms tail length
- Adaptive Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Fax support: Group III at 2.4, 4.8, 7.2, 9.6 and 14.4 Kbps using industry standard T.38 (Super G3 compatible up to 33.6 Kbps)
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### Quality of Service

- Adaptive jitter buffer
- Packet loss concealment
- IP Type of Service (TOS) and DiffServ support
- PacketSaver & multiplexing technology: Reduces bandwidth consumption up to 57% by combining voice packets from multiple calls into a single packet

### Package Features

- Qty/CTN: 5 PCS
- N.W/CTN: 6.3kg
- G.W/CTN: 7.0kg
- Giftbox size: 246mm\*223mm\*120mm
- Carton Meas: 627mm\*256mm\*235mm

### Hardware Specifications Front Panel

- Status Indicators Front Panel LEDs
- Operational Status
- LAN Link
- LAN Activity
- Port(s) In Use

### Rear Panel

- Standard RJ-45 LAN Interface (IEEE 802.3) for 10 BASE-T or 100 BASE-TX connections
- Two, four, six or eight standard RJ-11 connectors for analog line/trunk interfaces
- RS-232 connector for PC console
- DIAG connector for software diagnostics

## Ribbon Communications Tenor AFM200 2 FXS / 2 FXO Gateway

### Chassis

1U, rack mount

Inches: 8.25 Wide x 2.0 High x 7.0 Deep

Centimeters: 21.0 Wide x 5.1 High x 18.73 Deep

### AC Power Option

100-240 VAC, 50-60 Hz

Max power consumption: 22W

### Operating Altitude

10,000 ft. (3,000 m.)

### Weight Maximum Fully Populated

1.3 lbs. (0.6 kg)

### Environmental

5°C to 40°C operating

-10°C to 60°C storage

20 to 80% non-condensing operating humidity

### Industry Standards Support

Telco: FCC Part 68, AS/ACIF S003,CS03, JATE AS/ACIF S002:2001

EMC: FCC Part 15 Class B, EN55022,EN55024, EN61000-2-3, EN61000-3-3,AS/NZS3260

Safety: UL60950, EN60950, AS/NZS60950

**Please Enquire**