

REDCOM SLICE® Media Services Circuit Module

POWERED BY
TRANSip

- ▶ Turns TDM-only SLICE into fully integrated VoIP-TDM system
- ▶ Seamlessly enables TDM-to-IP, IP-to-TDM calls
- ▶ Provides 300 IP registrants
- ▶ V.150.1 and T.38 capable

OVERVIEW

IP is changing the way the military communicates. With REDCOM's Media Service Circuit (MSC) Module, existing SLICE customers in the DoD who have previously been restricted to TDM only can now enjoy all the benefits of REDCOM's TRANSip VoIP technology suite.

The MSC Module is a hot-swappable board that can be installed into an empty rear module bay in the SLICE, transforming the switching system into an all-in-one VoIP and TDM platform. With this fully integrated VoIP-TDM solution, the MSC Module provides IP to TDM conversions (media gateway functionality) as well as facilitating SMDR IP call records.

The REDCOM MSC Module features 128 timeslots, which allows the SLICE to handle up to 128 simultaneous VoIP-TDM calls for warfighter communications.

VoIP/TDM CONVERSION CAPACITY (SIMULTANEOUS CALLS)

| Codec | SLICE with MSC Module |
|---------------------|-----------------------|
| G.711 | 128 calls |
| G.729AB | 92 calls |
| G.726 16 or 32 Kbps | 120 calls |
| G.723.1L or H | 104 calls |

The results shown above were obtained under average operating conditions.



A FLEXIBLE SOLUTION

The MSC Module connects to an IPv4 or IPv6 network via the on-board 10/100 Ethernet port and supports Quality of Service (QoS) to maximize voice quality across limited-bandwidth data links. The MSC Module is easy to install and use, allowing for a wide variety of configurable performance settings, including:

- Voice codec
- Payload interval
- Echo canceller tail coverage
- Jitter buffer (fixed size or adaptive)
- Packet loss concealment
- Manual SDP manipulation
- Configurable QOS marking
- Silence Suppression with Comfort Noise Generation

Voice traffic can consume a considerable amount of SATCOM bandwidth, but TRANSip can compress voice traffic (using industry-standard codecs) to help maximize bandwidth efficiency. Also, support for Modem over IP (V.150.1) and Fax over IP (T.38) is available, offering important functionality for defense communicators.

MEDIA SERVICES CIRCUIT SPECIFICATIONS:

- Maximum number of timeslots assignable: 128 per module
- Maximum number of concurrent IP to TDM call conversions: 128 per module
- Codecs Supported: G.711 A-law, G.711 μ -law, G.723.1H&L, G.726 (16,24,32,40 kb/s), G.729 A&B, iLBC

ADDITIONAL FEATURES:

- ITU-T T.38 Fax over IP
- ITU-T V.150.1 Modem over IP
- QoS marking, based on Differentiated Services
- Real Time Protocol (RTP)
- RTP Control Protocol (RTCP)
- Silence Suppression
- Comfort Noise Generation
- Packet Loss Concealment
- Echo Cancellation (ITU-T G.165 and G.168)
- Jitter Buffer (adaptive or fixed)
- RFC 2833 DTMF relay
- IPv4 and IPv6 support

SYSTEM REQUIREMENTS

- SLICE® V4.0

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