# REDCOM Media Services Circuit VoIP Media Gateway

▶ *Available on the REDCOM HDX, SLICE® 2100™, & SLICE® 2100™ Micro platforms*

▶ *Integrated Media Gateway for seamless VoIP & TDM interoperability*

▶ *Part of REDCOM's comprehensive IP migration solution*

REDCOM's Media Service Circuit (MSC) is the driving force behind REDCOM's innovative IP technology suite, TRANSip®.  The MSC is a powerful VoIP media gateway with a wide variety of features and user-configurable settings that maximize the performance of the REDCOM's single-unit softswitch solutions, the HDX, SLICE® 2100™, and SLICE® 2100™ Micro.

## MSC ON THE HDX

On the HDX platform, the MSC is available as a hot-swappable board and is included with the purchase of TRANSip. Additional Media Service Circuit boards can be added to an HDX shelf as needed to provide additional TDM to IP conversion capability.

## MSC ON THE SLICE 2100

The MSC comes standard with the TRANSip-equipped SLICE 2100 and SLICE 2100 Micro. Additional capacity can be added to the SLICE 2100 via a SLICE Media Gateway module, or by stacking up to three SLICE 2100 units together to act as one unified system (offering a total of 6,000 IP subscribers).

## A FLEXIBLE SOLUTION

The MSC connects to an IPv4 or IPv6 network via the on-board 10/100 Ethernet port. The MSC is easy to install and use, allowing for a wide variety of configurable performance settings. Voice quality can be maximized even in a degraded network environment (with limited bandwidth, high latency, and packet loss) with the ability to custom configure a wide variety of settings, including:

- Voice codec
- Payload interval
- Echo canceller tail coverage
- Jitter buffer (fixed size or adaptive)
- Packet loss concealment
- Manual SDP manipulation
- Configurable QoS DSCP per subscriber and per trunk

Features such as Modem over IP (ITU-T v.150.1) and Fax over IP (T.38) provide important functionality for end users, and offer flexible bandwidth allocation within your IP network.

## VoIP/TDM CONVERSION CAPACITY (SIMULTANEOUS CALLS)

| Codec | HDX w/ 1 MSC Board | SLICE 2100 w/ built-in MSC | SLICE 2100 w/ 1 extra MSC Module | SLICE 2100 Micro |
|---|---|---|---|---|
| G.711 | 128 | 128 | 256 | 128 |
| G.729AB | 128 | 102 | 230 | 102 |
| G.723.1H | 128 | 80 | 208 | 80 |
| iLBC-20 | 128 | 110 | 238 | 110 |

*The results shown above were obtained under average operating conditions with non-encrypted calls. Actual results may vary depending on system configuration and network conditions. Capacity numbers are for V4.0R3P9 and newer.*

## SPECIFICATIONS

- Maximum number of timeslots assignable: 128 per board
- Maximum number of concurrent IP to TDM call conversions: 128 per board
- 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
- Platform availability:  REDCOM HDX, SLICE 2100, SLICE 2100 Micro

## 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 / RFC 4733 DTMF relay
- IPv4/IPv6 Dual-Stack

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