

JanusSC



JanusSC enables conversion between a wide range of SS7-and ISDN-based protocols and also supports R1/R2 signaling. This signaling converter solves any inter-work issues between various switches and equipment with a circuit based interface. The trunk can be configured as T1/E1/J1 dynamically. International protocol conversion can be achieved in the signaling system. This product also provides a cost-effective SS7 support solution for existing VoIP gateway products which don't have native SS7 support or for services which don't require complicated architecture. JanusSC is also useful to add ISDN PRI capacity to a legacy SS7 switch. VoIP-integrated solutions are also available.

Robust Signaling Support

JanusSC supports most worldwide TDM protocols. Native supported protocols include many variants of SS7/C7, ISDN PRI, and CAS. All trunks can support ISDN PRI.

Ease-of-use Management

The telnet-based menu-driven interface provides ease-of-use and also the most effective remote site management method for the operator. Both fixed trunk-to-trunk mapping and trunk group-to-trunk group mapping are available. The system doesn't require any maintenance. Alarms and status can be monitored with a web-based interface or generate e-mail notification. Dynamic configuration change is supported. 2U footprint chassis supports up to 128 T1/E1/J1 or 6 DS3. CDR generation has on/off option.

Flexible Scale

- Flexible Scale per board. Choices of 4-64 T1/E1/J1 or 1/2/3 DS3 TDM interface.
- Scales from 4T1/E1/J1 to 1024 T1/E1/J1s or 48 DS3s with non-blocking TDM backbone.
- Native SS7 support – optional software license

Technical Specifications

Standard AC Platform

- 2U - 19inch rack-mount, 300mm (11.811in.) deep with rack-mount brackets (can be set back approx. 100mm - 4in.)
- 3 slots for TDM board
- H.110 bus

TDM only board

- Choice of 4/8/16/32/64 T1/E1/J1 interface
- Up to 2048 IVR supports

TDM Line Interface

- T1/E1/J1
- DS3 (Up to 3 per board)
- OC3/STM-1
- Supports SF, ESF, SLC96 at T1/J1 mode
- Supports Double-frame (NO-CRC), CRC Multi-frame, Auto Detection at E1 mode
- B8ZS, AMI T1/J1 Line coding
- HDB3, AMI E1 Line coding
- Local /Remote Loop-back
- T1/J1 100 Ohms termination
- E1 120 Ohms termination

SS7/C7

- Up to 30,000 CIC per blade
- N+1 redundancy with built-in stack
- 1000 ISUP calls per second
- Dynamic configuration
- Up to 16 links per E1/T1
- Up to 64 links per blade
- 56Kbps and 64Kbps links
- 'A' Link and 'F' Link Supports

MTP3

- Up to 64 OPC per blade
- Up to 64 linksets per blade
- Point code sharing by multiple boards with distributed architecture
- Supported variants - ANSI (used for ANSI88 and ANSI92). ANSI96 (used for ANSI96 and TELCORDIA) ITU (used for ITU88, ITU92, ITU97, Q767, Singapore and ETSI) China, GF001-9001

SS7-ISUP

- ANSI 95, ANSI 92, ANSI 88 (T1.113)
- Telcord ia 97
- ITU 97, ITU 92 (Q.761), ETSI
- Singapore, China
- Complies with Q.780, Q.781, Q.782, Q.784
- Q.699 for Interworking between ISDN

ISDN-PRI

- Lucent 4ESS, 5ESS
- DMS-100, DMS-250
- NI2
- Euro ISDN, ETSI, NET5 (French, German, UK, China, Hong-Kong, and Korea)
- Complies with Q.920, Q.921, Q.931

CAS

- R1- FG-B, FG-D, E&M Wink Start
- R2- Korea, China, Singapore
- Taiwan Modified R1

IVR

- Dynamic DSP allocation
- A-law to U-law conversion on all channels
- Playback and recording
- Tone detection, generation, and suppression

Switch Platform Environmental requirements

- Power: AC or Dual -48 VDC
- Power Consumption: 60W per board without VoIP option
- Operation temperature: 0C to +50C
- Operation Humidity: 5% to 85% non-condensed

Safety

- US: UL60950 (2000)
- Europe: EN 60950 (2000)
- International: IEC60950 (1999)

EMC

- FCC 47 CFR Part 15, Subpart B: 1999 (Class A)
- EN55022: 1998 for Class A
- EN55024: 1998