



# Kmedia 800

1 to 8 E1s in 1U, with SS7.



- 1 to 8 E1s
- 32 to 256 VoIP channels
- Increase by upgrade of software every 1 E1 and every 32 VoIP channels
- Default dimensioning 1U for 19" rack, with single energy source
- Option for redundant source
- Measures: 44.5 (height) x 442 (width) x 279 mm (length)
- Weight: 4.54 kg

## Features and Benefits:

### Voice Processing Capacity:

- 1 SIP channel for each TDM channel, using universal codecs and echo canceling in all the channels.
- Voice Decodification  
Universal codecs: G.711, G.723.1, G.726, G.729ab, T.38, clear mode (RFC 4040)  
Additional codecs: G.722.2 (AMR-WB), G.728, G.729eg, iLBC, AMR, EVRC, GSM FR/EFR, QCELP
- TDM (PSTN) Interfaces  
1 to 8 T1/E1 (software upgrade every 1 E1)  
Independent configuration by port  
Connectors RJ45 for link connection
- Interfaces VoIP  
100/1000 Base-T with redundancy  
Connectors RJ45



- Fax/Modem/Data
  - T.38 relay of fax (V.17 and V.34)
  - Automatic G.711 fallback
  - Modem and data pass-through
- DTMF relay
  - RFC 2833, SIP INFO Method, In-band
- Echo Canceling
  - Canceling of standardized echo standardized by ITU-T G.168
  - Canceling of echo of up to 128 ms in all the channels simultaneously
- Voice Processing
  - Dynamic and programmable Jitter Buffer (20 to 200 ms)
  - Voice Activity Detection (VAD)
  - Comfort Noise Generation (GNC)
- Management Interfaces
  - 100/1000 Base-T For operation, administration, maintenance and provisioning (OAMP)
  - Serial port

## Signaling

### Support for Simultaneous Signaling:

- SIP
  - Handles the following RFCs: 2327, 2833, 2976, 3204, 3261, 3262, 3263, 3264, 3311\*, 3323\*, 3325\*, 3326, 3372\*, 3389, 3398, 3515, 3551\*, 3555\*, 3578\*, 3581, 3665\*, 3666, 3764, 3891, 4028, 4694, 5806
  - (\*parcial)
  - SIP-I/SIP-T
- SIGTRAN
  - M2PA, M2UA, M3UA, IUA
- SS7
  - Up to 64 x links MTP2
  - Multiple redundancy of links MTP2
  - Up to 64 MTP3 point codes of sources and targets
  - ISUP variants: ITU 92, ITU 97, ANSI 88, ANSI 92, ANSI 95, Q.767, Telcordia, 97, Brasil (Brazil)
- ISDN PRI
  - Q.931 ISDN PRI: NI-2, 4ESS, 5ESS, DMS-100, DMS-250, Euro ISDN
- CAS
  - MFC R2 (default ITU, Brazil)
  - Customizable protocol script

## Control

- Standalone call control
- Any-to-any call routes (TDM for VoIP, TDM for TDM, VoIP for VoIP with transcoding)
- Call route control based upon: trunk group, calling/called, address of nature, ASR, time of day, loads, costs, TO:, FROM: Request URI, redirecting of numbers and other parameters
- Routing (tables with more than 100,000 routes, upload by files in Excel or CSV)





- Route-Retry - Attempts in other routes based upon answer times (Alert - Call Accepted) and prioritization of routes.
- Call Transfer (Refer)
- H.248 (MEGACO) call control
  - ITU-T H.248 versions 1 and 2
  - Transportation by UDP, SCTP, IPsec
  - Detection of DTMF and fax
  - Generation of DTMF tom
  - Alerts of quality and inactivity of calls
- Management of session and billing
  - Monitoring and availability of SIP customer
  - Monitoring of RTP inactivity
  - Generation of CDRs (RADIUS or text file)

### OAMP+T

- Operation and Administration
  - Web system for operation
  - SNMP v2 GET, TRAPs and alarms
  - Dynamic configuration exchange
- Monitoring
  - Graphic channel occupation
  - Status of up and down of links and protocols
  - Viewing of status of SS7 by layers
  - Status of alignment of TDM channels
  - Quantity of calls made per period
- Maintenance
  - Web interface for maintenance
  - Automated upgrade system
  - Recovery and copy of configurations (Backup)
- Provisioning
  - Web interface for configuration
  - Dynamic activation of configuration
- Problem Solution
  - Tracing by call (history or real time)
  - Signaling pickup tools
  - SSH command-line

### Electrical features

- Energy input
  - 90 to 260 VAC, 47 to 63 Hz (source AC)
  - 40 to -60 VDC (source DC)
  - Redundant source with 2 inputs (optional in model 800)
  - Maximum consumption of 138W

### Regulatory compliances

- Environmental Conditions





Operating temperature: 0 to +55 °C, 95% relative humidity, not condensing  
Inventory temperature: -10 to +75 °C, 95% relative humidity, not condensing

- Certifications  
Anatel certification

