

# DCME-20:1 VOICE COMPRESSION

Model No: ATG 620E1-IP

## DCME20:1

*The demand for phone and fax connections is outpacing the expansion capacity of network infrastructures throughout the world. Modifying and expanding this infrastructure can be both costly and time consuming. Similarly, carriers are seeking ways to maximize their investment on costly trunk lines. The DCME product (ATG-620E1-IP) offers voice compression solutions at toll quality voice and is widely deployed in cellular networks to reduce the cost of leased lines ( TDM or IP Links) by factors of between 20:1. The 20:1 DCME product can meet the following needs of network operators.*

- Increased revenue through improved network utilization
- Increased network capacity at minimum incremental cost
- Simplicity and speed of deployment
- High reliability
- Ease of management
- Quick ROI
- Breaking of price-performance barriers.

### *Key Benefits*

- Up to 20:1 compression ratio for Toll Quality voice traffic
- In built module for TDM Traffic over a TDM Network and TDM Traffic over a packet switched network
- User Selectable Bearer link mode : TDM or IP
- Supports Variable Bit Rate (VBR)
- Supports Toll Quality Service in multiple compression/decompression cycles
- Supports standard and non-standard Fax protocols
- Voice Band Data (VBD) compression (optional)
- Efficient native data transmission over the bearer (optional)
- Efficient integration of PSTN and packetized services
- Full and dynamic bearer bandwidth utilization
- Optional Signaling Compression (PRI ISDN, SS7, etc,)
- Internal echo canceller
- Remote in-band management through the bearer

NOTE : The specifications can be changed without notice due to technological advances.



## INNOVATION COMMUNICATIONS SYSTEMS LTD

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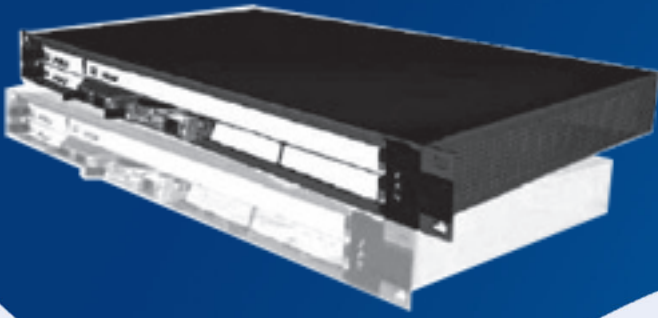
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### Technical Specifications

- Total Capacity : Maximum of 620 DS0 channels
- Traffic Processing : Signal Classification (Voice, fax, VBD, DTMF)  
Silence Suppression (Voice Activity Detection and Comfort Noise Injection)  
Fax and VBD call protection – Forward Error Correction (FEC)  
G3 standard and non-standard Fax  
Supports VBR - Variable Bit Rate  
Data transmission  
Supports DSI - Digital Speech Interpolation  
Bandwidth efficient CCS Signaling transmission
- Voice Codec's : G.729D 8/6.4Kbps
- Echo Cancellers : ITU-T G.168 compliant  
Up to 192 in steps of 32 msec Echo Tail Length
- Fax support : ITU-T G.168 compliant  
ITU-T T.38 fax relay (IP Mode only) Network Interface
- Voice Band Data (modem) support : ADPCM 40Kbps
- Jitter buffer size (IP mode only) : Adaptive up to 350 msec
- Redundancy : Card redundancy (Optional)  
Power input redundancy  
Power supply redundancy (Optional)
- Power : Max power supply consumption: 50Watts  
DC power input: -42 to -60 VDC  
AC power input (Optional)
- Dimensions : Height: 1 U, Width: 482 mm  
Depth: 220 mm
- DTMF (IP mode only ) : Detection and generation (Optional)  
MGCP -DTMF package support (Optional)

### Cost Effective Solutions

For a mobile operator or a wireless data services provider network backhaul is a transparent but critical function in the delivery of communication services to the end user. Often, this infrastructure component relies on T1/E1 leased lines, and while backhaul costs can reach nearly 30% of operating expenses, options that are more reliable and cost-competitive are often overlooked. We understand that telecom operators need systems that meet their specific requirements at strategic as well as at operational levels.

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