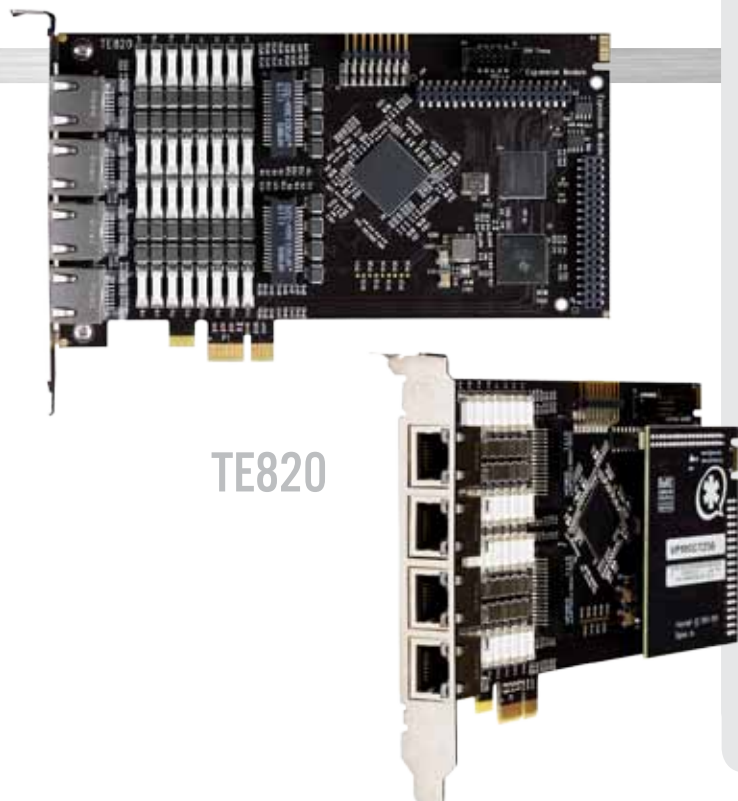# TE820 Octal-Span Digital Card

Digium's TE820 Octal-Span digital card is built exclusively for high-density Asterisk® applications that require high-performance, cost effective digital connectivity. The TE820 includes eight independently software-selectable digital telephony interfaces, supporting up to 192 channels (in T1/J1 mode) or 240 channels (in E1 mode) — the highest single-card port density available for use with Asterisk. The TE820 seamlessly interconnects traditional telephony systems with Voice over IP (VoIP) technologies at the lowest per-port price on the market today.

The TE820 card supports industry standard telephony protocols, including multiple variants of Primary Rate ISDN. Each span can be configured as either CPE or network for optimal flexibility. The optional VPMOCT256 hardware echo cancellation module, based on the industry-leading Octasic chipset, offloads the task of echo cancellation from the CPU, increasing overall system performance and call quality.

The TE820 card has been designed to be fully compatible with existing software applications and is fully integrated with Digium's Asterisk software. The open source drivers for Digium cards support an application programming interface (API) for custom application development. The combination of Digium hardware and Asterisk software provides a cost effective platform for building numerous communications solutions, from PBX system and VoIP gateways to call centers and complete unified communications suites. Digium solutions are paving the way for a new generation of worldwide communications.

TE820

Features

Up To Eight (8) T1, E1 or J1 interfaces*
Up to 192 (T1/J1) or 240 (E1) simultaneous calls
Interfaces are software selectable (T1, E1 or J1 Mode)
Half-length, full-height PCI-Express card
Optional 128ms hardware echo cancellation module

*4 RJ-45 connectors, each supporting two circuits. Break-out dongles are included.

Target Applications

Enterprise Phone Systems
Enterprise IVR Servers
High-density VoIP gateway systems
High-density conferencing systems
Carrier media server platforms

Framing Types

Superframe (D4)
Extended Superframe (ESF)
Channel Associated Signaling (CAS)
Common Channel Signaling (CCS)

Coding Types

Alternative Mark Inversion (AMI)
Bipolar with Eight (8) Zero Substitution (B8ZS)
High Density Bipolar Order Three (HDB3) with optional CRC4

PRI Switch Compatibility

EuroISDN (PRI or PRA) — Q.931/Q.921
AT&T 4ESS   Network or CPE
DMS 100   National ISDN 2
Lucent 5E   CAS Voice Modes

Warranty

5-year parts and labor
Exceptional Satisfaction Policy

Production Quality

ISO 9001 Certified

Ordering Details

1TE820F: 8 Span PCI Express T1/E1/J1 PRI Card
1TE820BF: 8 Span PCI Express T1/E1/J1 PRI Card with Echo Cancellation Module
1VPMOCT256LF: 256 Channel Echo Cancellation Module