

						
<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Broadband Access</li> <li>• Carrier Ethernet</li> <li>• DSLAMs</li> <li>• DSU/CSUs</li> <li>• EoCu/EoTDM</li> <li>• Routers and Switches</li> <li>• HDLSx/T1</li> <li>• ISDN</li> <li>• M13 Multiplexers</li> <li>• Mobile Backhaul</li> <li>• IP Business Gateways</li> <li>• Optical Access</li> <li>• Security/VPN</li> <li>• VoIP and Video</li> <li>• Wi-Fi and Wireless Backhaul</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• ATM</li> <li>• Ethernet/IP</li> <li>• Gigabit</li> <li>• E1/T1</li> <li>• T3</li> <li>• DDS</li> <li>• DES/3DES</li> <li>• GR-303</li> <li>• HDLSx</li> <li>• OC-3/OC-12/OC-48</li> <li>• PRI</li> <li>• SIP</li> <li>• SONET</li> <li>• SHDSL &amp; DSL</li> <li>• STM-1</li> <li>• Fractional TDM</li> <li>• Voice &amp; VoIP</li> <li>• Wireless</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• ATM Termination and Access</li> <li>• Ethernet Extension</li> <li>• Ethernet Connectivity</li> <li>• VoIP Solutions</li> <li>• TDM over IP</li> <li>• TDM pseudowire</li> <li>• Fiber Connectivity</li> <li>• TDM Access</li> <li>• Interface Conversion</li> <li>• Voice Compression</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• ATM</li> <li>• Ethernet/IP</li> <li>• E1/T1</li> <li>• E3/T3</li> <li>• Fiber Optics</li> <li>• Pseudo Wire (TDMoPSN and ATMoPSN)</li> <li>• SDH/SONET</li> <li>• SHDSL &amp; DSL</li> <li>• Sub-Rate TDM</li> <li>• Voice &amp; VoIP</li> <li>• Wireless</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• GSM Gateways</li> <li>• CDMA Gateways</li> <li>• UMTS Gateways</li> <li>• SMS Gateways</li> <li>• VoIP to GSM/CDMA/UMTS</li> <li>• ISDN to GSM/CDMA/UMTS</li> <li>• PBX to Cellular</li> <li>• IP PBX to Cellular</li> <li>• VoIP Termination</li> <li>• Call Back</li> <li>• PSTN Bypass</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• 2G and 3G</li> <li>• CDMA</li> <li>• SIP</li> <li>• H.323</li> <li>• E1/PRI</li> <li>• T1/PRI</li> <li>• BRI</li> <li>• VoIP</li> <li>• SMS</li> <li>• QoS</li> <li>• Hypersavings</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• VoIP Gateways</li> <li>• Gatekeeper</li> <li>• Session Border Controller</li> <li>• Call Routing Server</li> <li>• Unified Communications</li> <li>• Microsoft OCS Gateway</li> <li>• Survivable Gateways</li> <li>• TDM to VoIP Migration</li> <li>• Calling Card</li> <li>• Call Shop</li> <li>• Least Cost Routing</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• SIP &amp; H.323</li> <li>• IVR &amp; Radius</li> <li>• Microsoft OCS/UCP</li> <li>• E1/T1</li> <li>• E1/PRI</li> <li>• ISDN I/BRI</li> <li>• Analog FXO/FXS</li> <li>• PacketSaver</li> <li>• NATAccess</li> <li>• MultiPath</li> <li>• Auto Provisioning</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Hosted PBX/IP Centrex</li> <li>• Pre-paid Calling</li> <li>• Call Center</li> <li>• Unified Messaging</li> <li>• Conferencing</li> <li>• VoD and IPTV</li> <li>• Softphones</li> <li>• Integrated Billing</li> <li>• Custom Solutions</li> <li>• Class 4 &amp; 5 Services</li> <li>• Secure VoIP</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• SIP</li> <li>• Class 4 &amp; 5 Features</li> <li>• Multi-tier Rating and Billing</li> <li>• Call Recording</li> <li>• Call Monitoring</li> <li>• CDR and Accounting Export</li> <li>• Device and User Provisioning</li> <li>• Multi-Domain</li> <li>• CALEA Capabilities</li> <li>• Call Routing/Alternate Routes</li> <li>• Location and Feature Server</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Bandwidth Optimization</li> <li>• Application Acceleration</li> <li>• Application Control</li> <li>• Traffic Management</li> <li>• Service Delivery Point</li> <li>• Network Visibility</li> <li>• Control/Manage Web Access</li> <li>• Policy Based QoS</li> <li>• Fair Use Policies</li> <li>• Http Acceleration</li> <li>• WAN Compression</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• Ethernet/IP</li> <li>• TCP/CIFS/HTTP Acceleration</li> <li>• Layer 7 Classification</li> <li>• WAFS Functionality</li> <li>• WAN Memory (Dierencing)</li> <li>• URL Analysis (ASAM)</li> <li>• Adaptive Response</li> <li>• Auto Discovery</li> <li>• 95th Percentile Calculations</li> <li>• Drill Down Analysis</li> <li>• Unified Performance Mngt.</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Carrier Media Gateways</li> <li>• Any to Any Switching</li> <li>• SS7 and Sigtran</li> <li>• T1, E1, T3, OC-3 and STM-1</li> <li>• Low power &lt;130 watts</li> <li>• Full redundant options</li> <li>• NEBS Level 3</li> <li>• H.248 support</li> <li>• 1U and 2U low profile</li> <li>• Supports wireless CODECS</li> <li>• Transcoding</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• SIP</li> <li>• SS7 -MTP2, MTP3,TCAP/ISUP</li> <li>• SIGTRAN -M2PA,M2UA,M3UA</li> <li>• ISDN - 14 Variants</li> <li>• IVR</li> <li>• E1/T1/J1/DS3/OC-3/STM-1</li> <li>• H.248 - ITU-T H.248</li> <li>• FAX - T.38 fax relay, Group 3</li> <li>• GSM Voice CODECS</li> <li>• Universal CODECS</li> <li>• Transcoding</li> </ul>
						
<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Wireless Gigabit</li> <li>• Wireless Fast Ethernet</li> <li>• Point to Point Wireless</li> <li>• Fiber Equivalent Connections</li> <li>• Millimeter Wave Wireless</li> <li>• Full Rate, Full Duplex Links</li> <li>• High Security Wireless</li> <li>• Low Latency Wireless</li> <li>• LAN Extension</li> <li>• Fiber Extension</li> <li>• Interference Free Links</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• Millimeter 60/80 Ghz</li> <li>• Ethernet/IP</li> <li>• Gigabit (1000 Mbps)</li> <li>• Fast Ethernet (100 Mbps)</li> <li>• AdaptRate™ switching</li> <li>• AdaptPath™ switching</li> <li>• Forward Error Correction</li> <li>• Spatial Diversity</li> <li>• Embedded Web and SNMP</li> <li>• 256-bit key length AES</li> <li>• Cipher Block Chaining</li> <li>• HALT/HASS testing</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Media Converters</li> <li>• Network Interface Cards</li> <li>• Network Interface Devices</li> <li>• Converters</li> <li>• Device Servers</li> <li>• Injectors</li> <li>• Multiplexing</li> <li>• Industrial Switches</li> <li>• TDM over IP</li> <li>• Fiber Optics</li> <li>• SFP's</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• Gigabit/10Gb</li> <li>• CWDM</li> <li>• POE</li> <li>• T1/E1/T3/E3/OC-3</li> <li>• Hardened</li> <li>• High Temp</li> <li>• Gbic</li> <li>• ISDN BRI/PRI</li> <li>• Rail and DIN Mount</li> <li>• Ethernet/IP</li> <li>• MPLS</li> <li>• CCTV Video</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Internet Security Appliances</li> <li>• Enterprise and Carrier Grade</li> <li>• Firewall</li> <li>• Intrusion Protection</li> <li>• Denial of Service</li> <li>• Email Security</li> <li>• Web Security</li> <li>• Virus and Spyware</li> <li>• Privacy</li> <li>• VPN</li> <li>• Comprehensive reporting</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• Stateful Inspection</li> <li>• Firewall: to 9 Gbit/s</li> <li>• VPN Throughput: to 580 Mbit/s</li> <li>• IPS Throughput: to 1,1 Gbit/s</li> <li>• UTM Throughput: to 350 Mbit/s</li> <li>• Emails per Hour: to 2,200,000</li> <li>• Connections: to 2,500,000</li> <li>• Quarantine Storage: 200 GB</li> <li>• Log/Report Storage: to 220GB</li> <li>• IPsec/SSL/PPTP/L2TP</li> <li>• Redundancy Options</li> <li>• Web/SSH/Telnet Management</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Broadband Wireless Solutions</li> <li>• Wimax Wireless Solutions</li> <li>• Multi-point Wireless</li> <li>• Anypoint-to-Multipoint</li> <li>• Wireless Bridging</li> <li>• Wireless Routing</li> <li>• NLOS Solutions</li> <li>• Advanced OFDM Solutions</li> <li>• Wireless Backhaul</li> <li>• Wireless Data, Voice &amp; Video</li> <li>• Billing Options</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• MC-DSSS</li> <li>• OFDM/W-OFDM</li> <li>• TDD/DTA</li> <li>• CIR/MBR</li> <li>• VLAN Support</li> <li>• QoS/802.1q</li> <li>• ISM/WiMax</li> <li>• NetMOS™</li> <li>• 802.16d</li> <li>• Integrated DHCP Server</li> <li>• SNMP, TELNET, Web GUI</li> <li>• Element Management System</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Wireless Broadband</li> <li>• Wimax Wireless Solutions</li> <li>• Multi-point Wireless</li> <li>• Point-to-Point Wireless</li> <li>• Wireless Bridging</li> <li>• Wireless Routing</li> <li>• NLOS Solutions</li> <li>• Advanced OFDM Solutions</li> <li>• Wireless Backhaul</li> <li>• Wireless Data, Voice &amp; Video</li> <li>• Billing Options</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• MC-DSSS</li> <li>• OFDM/W-OFDM/TDD</li> <li>• AES Encryption</li> <li>• Convolutional Turbo Coding</li> <li>• MIMO</li> <li>• QoS/802.1q</li> <li>• ISM/WiMax</li> <li>• OAM&amp;P</li> <li>• 802.16e</li> <li>• Chase Combining</li> <li>• SOAP/XML and SNMP</li> <li>• Element Management System</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Wireless Arrays</li> <li>• WiFi</li> <li>• High Bandwidth</li> <li>• Corporate Wireless</li> <li>• Healthcare Wireless</li> <li>• Government Wireless</li> <li>• Hospitality Wireless</li> <li>• Education Wireless</li> <li>• Distributed Intelligence</li> <li>• Wireless Security</li> <li>• Rapid Deployment</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• 802.11a,b,d,e,g,h,j,n</li> <li>• Dual Band RF</li> <li>• 2.4ghz</li> <li>• 5.8ghz</li> <li>• WiFi Threat Sensors</li> <li>• Integrated Firewall</li> <li>• Integrated WiFi Switch</li> <li>• Integrated Spectrum Analyzer</li> <li>• WPA, WPA2, MD5, TLS, DTLS</li> <li>• PKI Security</li> <li>• RADIUS</li> <li>• SNMP</li> </ul>	<p><b>Solutions:</b></p> <ul style="list-style-type: none"> <li>• Converged Broadband</li> <li>• Voice Signaling Conversion</li> <li>• Rate Conversion</li> <li>• VPN/Security</li> <li>• Legacy Data Conversion</li> <li>• Circuit to Packet Migration</li> <li>• Broadband Routing</li> <li>• CDMA/GSM Wireless</li> <li>• IP Terminal Servers</li> <li>• Satellite Encryption</li> <li>• Network Management</li> </ul> <p><b>Technologies:</b></p> <ul style="list-style-type: none"> <li>• IP/Ethernet</li> <li>• CDMA/GSM/GPRS</li> <li>• R2/C5/R1/ISDN/SS7</li> <li>• T1/E1/PRI</li> <li>• IPSEC VPN TUNNELING</li> <li>• IPSEC VPN SECURITY</li> <li>• DSLC/VISAll/Pol-Select</li> <li>• Bisync/X.25/ALC/SCADA</li> <li>• V.90/56/64 DDS</li> <li>• Frame Relay/PPP/Multi-link</li> <li>• PPP/PPPoE/X.25</li> <li>• SNMP/TELNET/FTP</li> </ul>

Pulse Supply provides additional solutions, products and manufacturers to complement its core offerings. Please call or email your Pulse Supply representative with any particular requirements or applications. We provide design, installation, maintenance and ongoing support contracts.

#### Additional Manufacturers:

3Com (HP)	Exalt Communications	Polyphaser
Alcatel-Lucent	Fluke Networks	PORTech
ADC/TE Connectivity	F5 Networks	Proxim Wireless
Airaya	Frederick Engineering	Radware
Allied Telesis	Fujitsu	Radwin
Alvarion	Grand Stream	Radio Waves, Inc.
American Power Conversion	Hawking Technology	Raritan
Andrew/Commscope	Hewlett-Packard	Radio Frequency Systems (RFS)
Axis Communications	Huber+Suhner	Sierra Wireless Data, Inc
Aztek Networks	Hyperlink Technologies	SMC Networks
Belden	IMC Networks	Solctek Corporation
Belkin Components	Juniper Networks	SonicWALL
Brooktrout (Dialogic)	Kentrox	Sycamore Networks
Canary Communications	Laird	TC Communications
Canobeam FSO	Lantronix	Telcosat
Ceragon Networks	Linksys	Telco Systems
Cisco	Maxrad (PCTEL)	Tellabs
Citel	Memotec	Terraware Solutions
Citrix Systems	Mobotix	Times Microwave
Dataprobe	Motorola Wireless	TIL-TEK Antennas
D-Link Systems	MRV Communications	Tripp Lite
Dell	Multi-Tech Systems	Ubiquiti Networks, Inc
Dialogic	MYfax	U.S. Robotics
Digi International	Nicecomm	Westell
Digium	Patton Electronics	XPANDAcell
Dragonwave	Perle Systems	Zhone Technologies
Emulex	Plantronics	Zoom Telephonics
Enterasys Networks	Polycom	ZyXEL

#### Solution Focuses:

##### • Datacomm and Wide Area Networks

Traditional solutions for combining and extending Data, Voice and Video. Includes Multiplexers, Routers, TDMoIP, Channel Banks, Digital Cross Connects, FRADs, Dslams and Short Haul Modems

##### • Voice over IP

Complete solutions including Hosted VoIP Platforms for ITSP, Centrex, SIP Trunking, Calling Cards, Call Shops, IP PBX, Gateways, Session Border Controllers, Gatekeepers, SIP Proxies, Billing, SIP Phones and Adapters

##### • Wireless WAN

Focused Solutions for the Wireless WAN and Backhaul including Point-to-Point and Multi-Point products. Includes licensed and Un-licensed frequencies. Support for E1, T1, E3, T3, OC-3, OC-12, STM-1, STM-4, 10/100BT and Gigabit ethernet. WiMax and Mesh Networks are also available

##### • Signaling Conversion

Desktop and high density solutions for converting voice signaling protocols that include DTMF, R1, R2, C5, PRI and SS7

##### • Interface Conversion

Legacy conversion of data protocols like RS-232, V.24, RS-530, RS-449, RS-485, V.36, V.35, X.21, SCADA, Current Loop, G.703 and many more

##### • IP Optimization

Products to manage and control IP bandwidth in Data, Voice and Video Networks. Includes load sharing and balancing solutions

##### • Video

Includes IP Cameras, Video Encoder/Decoders and accessories

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#### Web Sites:

[www.pulsesupply.com](http://www.pulsesupply.com) – Corporate Website  
[www.pulse-voip.com](http://www.pulse-voip.com) – VoIP Solutions Website  
[www.airmuxusa.com](http://www.airmuxusa.com) – Wireless Solutions Website  
[www.myfax-usa.com](http://www.myfax-usa.com) - Network Fax Servers  
[www.hypermedia-usa.com](http://www.hypermedia-usa.com) - Cellular and SMS  
[www.portech-us.com](http://www.portech-us.com) - Low Density Cellular  
[www.netperformer-usa.com](http://www.netperformer-usa.com) - Data/Voice Routing  
[www.pulse-gateways.com](http://www.pulse-gateways.com) - Media Gateways  
[www.xpandacell.com](http://www.xpandacell.com) – Cellular Extender Website  
[www.pulsewan.com/signaling](http://www.pulsewan.com/signaling) - Signaling Conversion  
[www.gopackets.com](http://www.gopackets.com) – E-Commerce Website  
[www.talkingplatformsusa.com](http://www.talkingplatformsusa.com) – Hosted VoIP