bicom
S Y S T E M S

vSWITCH
... Advanced Simplicity

vSWITCH
High Performance
Switching Platform

Complete Platform
for today's Telco/ISP: vSWITCH

...now you can't say you do not know
what's the best platform available...

bicom SYSTEMS

SWITCHING Nodes ①
- 4 Hot Swappable, Full Featured SWITCHING Nodes In a 2U Chassis

480 Calls Per Node ②
- Up to 8 T1/PRIs or 480 SIP concurrent calls per module

Redundant Power Supplies ③
- Shared, Redundant 1400W Power Supply

Ethernet Interfaces ④
- Redundant Gigabit Ethernet Connections

Remote Management ⑤
- Secure remote KVM-CLI and POWER management per SWITCHING Nodes

PSTN Interfaces ⑥
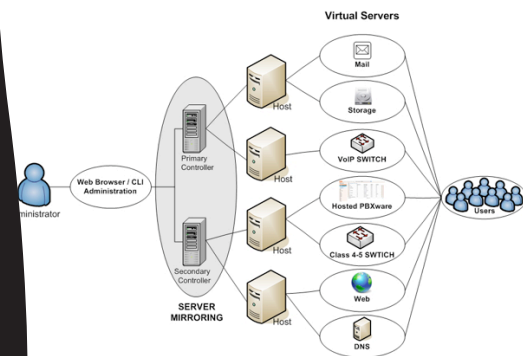- Compatible with 8 T1/E1 PRI PSTN PCI-e Cards

Storage Nodes ⑦
- 3 Hot-Swap Hard Disks in a RAID 5

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SYSTEMS

vSWITCH
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vSWITCH is ready for installation of the following **Bicom Systems** products:
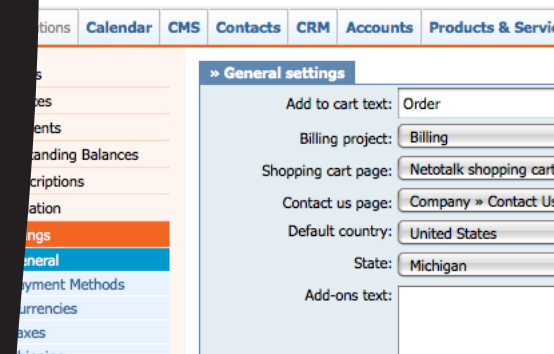
SERVERware

- High Availability Features
- Next generation communication technology solution
- Delivers a wide range of IP services and applications
- Redundant, highly available and fault tolerant
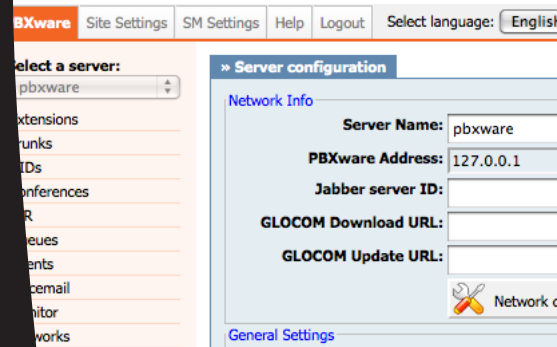- Command line and Web Interface management

TELCOware

- CMS (Content Management System)
- CRM (Customer Relations Management)
- Accounts
- Advanced Billing and Shopping Cart
- Easy to seutp Online customer portal

PBXware

- Professional Turnkey Telephony Platform
- Easy To Setup And Use With Included GUI
- Flexible, Reliable and Scalable
- Standard System Features and more
- Call Routing Support (LCR)
- Comprehensive User Features
- Highest system availability possible

vSWITCH Specifications

CPU
- Intel Xeon E52620V3 - Tray Processor CP9144

Memory
- 8GB Crucial 8GB DDR4 2133 ECC REG CT8G4RFD8213 Dual Rank 1.2v RM8073

InfiniBand (optional)
- Infinihost III InfiniBand with CX4 connector
- OR ConnectX DDR InfiniBand with QSFP connector
- OR ConnectX QDR InfiniBand with QSFP connector

Graphics
- Matrox G200eW

IPMI
- Support for Intelligent Platform Management Interface v.2.0
- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Winbond® WPCM450 BMC

Network Controllers
- Intel® 82576 Gigabit Ethernet Controller
- Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- Intel® I/OAT 3 support
- VMDq support
- 1 Realtek RTL8201N PHY (dedicated IPMI)

Hard Drives
- 4 Solid State Drive ports
- INTEL DC S3500 240GB SSD SATA SSDSC2BB480G401 HD0650 (per node)
- Seagate Constellation ES.3 ST2000NM0023 1TB SAS 7200rpm 128MB HD1483 (per node)

LAN
- 2 RJ45 LAN ports
- 1 RJ45 Dedicated IPMI LAN port

USB
- 2 rear + 1 header (2 ports)
- Total 4 USB 2.0 Compliant

VGA
- 1 VGA Port

External Drive
- Slim External DVD Writer USB w/ AC Power

PCIe
- 1 x PCIe 2.0 x16

Rail Kit
- Quick-Release Rail Kit for Square Holes,
  19 - 26.6 inches

Chassis
- Form Factor
  2U rackmount chassis
- Height
  88 mm, 3.47"
- Width
  438 mm, 17.25"
- Depth
  724 mm, 28.5"
- Weight
  43 lbs / 68 lbs pkg weight

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Environment

Ambient Temperature
- Operating: 10°C to 35°C; non-operating: -40°C to 70°C

Relative Humidity
- Operating: 8 – 90% non-condensing; Non-operating: 5 – 95% non-condensing

Power Supply
- Redundant 1400W high-efficiency power supply with PMBus
- 80 PLUS Gold Certified

AC Input
- 1100W: 100 – 140V, 50 – 60Hz, 9.5 – 13.5 Amp
- 1400W: 180 – 240V, 50 – 60Hz, 7.0 – 9.5 Amp

DC Output +5V standby
- 4 Amp

DC Output +12V
- 92 Amp @ 100-140V
- 116 Amp @ 180-240V

Power Supply Safety / EMC
- USA – UL listed, FCC
- Canada – CUL listed
- CCC Certification
- EN 60950 / IEC 60950-Compliant Europe / CE Mark
- Germany – TUV Certified

Vision Statement
We Unify Communications

Mission Statement
We provide the Communication World with the most Complete Turnkey Communication Systems available by Creating, Unifying and Supporting the Most Advanced of Current Technologies.

Overview
Bicom Systems was the first company to deliver Open Source Communications Software as Professional Turnkey Solutions.

By combining the best of open source telephony and its own proprietary software, Bicom Systems can provide enterprises with turnkey solutions that take account of the clients' exact needs within a very cost-effective framework - giving CIOs the safest choice. This mix includes royalty-free software, vibrant open source communities, available custom development backed up by accountable, professional support services.

The company finds innovative open source communication projects and professionalizes the project by creating, unifying and supporting turnkey systems with its proprietary in-house software. Bicom Systems provides the resources, core development and support services to enable popular open source projects to scale into enterprise-class communications software.

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