

Cell Janus EX

Multi-WAN Service Gateway for Carrier & Industrial



Features

- Multi-Homing By Single or Multiple of Service Providers w/o ISP Corporation
- Network WAN Technology Independent - Any Combination of xDSL and/or WiMAX/3G Wireless Links
- Inbound & Outbound of Load Balances IP Traffic over Multiple WAN Connections
- Robust Performance of Cell CRIOS & IPPE Engine
- Integrated with DHCP, iNAT, DNS Server, Intelligent Routing, PPPoE, QoS & Firewall Features in One Appliance
- Standalone (Cell Web GUI) or 3-Tier of Centralized Management (Cell NetsVision)
- Technology Proven for Service Providers for Managed Janus Service
- Robustness Proven for Industrial Telemetry & Hazardous Environment

Overview

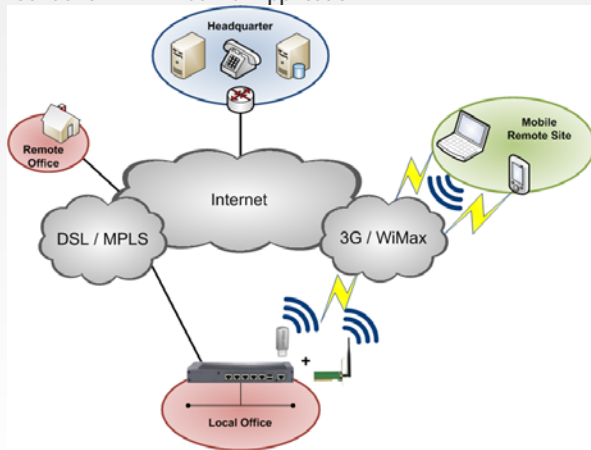
The explosive deployment of broadband IP carrier network services like xDSL, MPLS or Wireless and their rapid adoption by businesses present a significant opportunity for Service Providers. Yet the fierce competition to capture broadband customers has made it difficult for Service Providers to maintain high-margin services and strong competitive differentiation. At the same time, businesses are demanding a higher degree of network reliability as they become increasingly reliant on their Internet connectivity. Addressing both these issues, Cell Janus product solution allows any IP broadband service providers to deploy advanced, high-margin business services with high quality of IP services to customers simply and inexpensively.

Cell Janus EX is a next-generation of multi-WAN IP service gateway with Cell's proprietary Custom Real-time Intelligent Operation System (CRIOS) and unique Intelligent Packet Processing Engine (IPPE) developed and embedded into a hardware appliance system. With its industrial graded and Fan-less design, solid engineering with quality components, ultra low power consumption for any external plants and industrial enterprises under very hazardous environment. It targets for any industrial Telemetry, Fire and Gas Manufacturer or Service Providers, Oil/Petrochemical, Chemical, Off-shore, Marine Industries and etc.

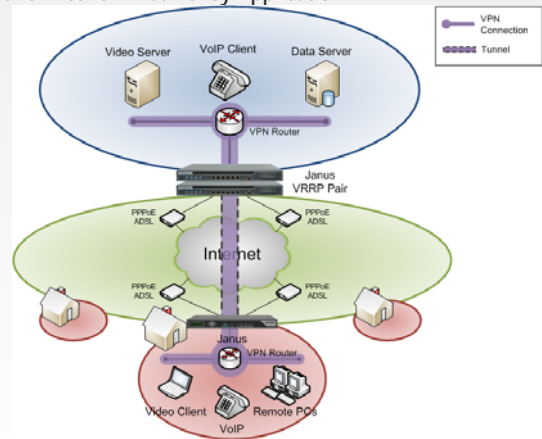
Cell Janus EX also provides not only all the current Janus features and functionality, but also supports unique applications to meet 3G mobile or WIMAX service providers to meet their IP broadband service growth recently. It supports the performance up to 200Mbps and 3 WAN Gigabit links. It provides all sophisticated capabilities of Janus load balancing features. With a large deployment of Cell Janus EX installed in a multi-national network infrastructure or service provider managed service, Cell NetsVision can be deployed as a centralized management platform to manage, centralize, monitor and configure all the Janus EX with other high-end models (RX/TX) across networks or regions remotely.

Application

Cell Janus for WiMAX Carrier Application



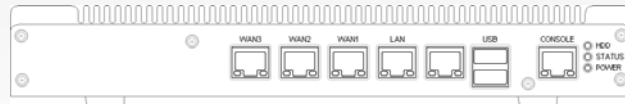
Cell Janus for Network Resiliency Application



Hardware Specification

Product Model	Janus EX-3
Hardware Appliance	
Hardware System	Desktop, Intel Based Mounting Bracket (optional)
Physical Interfaces	4 GE Ports 3 WAN + 1 LAN
Extension	2 x USB 2.0
System Console	Serial console port RS232 (RJ45)
High Availability	Yes
LCD Display	No
Dimension(LxWxH)	268 x 140 x 40 mm
Weight	1.2 kg
System Performance	Max 200Mbps, 128K sessions
Power Supply Voltage	AC/DC power adapter, 60W
Power Input	AC100-240V@50Hz -60Hz
Temp, Ambient Storage	-20C to 70C degree
Operation Humidity	5-95%, non condensing
Standard Regulatory	FCC, CE, RoHS, VCCI
MTBF	24-Year

Janus EX Front side



Janus EX Rear side



System Specification

System Operation System

- Cell CRIOS (Custom Real-time Intelligent OS)
- Cell IPPE (Integrated Packet Processing Engine)

Modes of Operation

- Up to 8 Ethernet WAN ports (with Fiber ports)
- Automatic backup
- Automatic VPN backup : EX/CX/RX/TX + VPN device
- Dynamic session-based load balancing
- Per link configuration : NAT, PPPoE, Firewall

Load Balancing

- Inbound & outbound traffic
- Session-by-Session
- IP Mapper & DNS Mapper technology
- Inbound with Round Robin, Specified Order, Downstream / Upstream Threshold / Auto Geographic*
- Outbound with Weighted Round Robin, Downstream / Upstream Equalized, Downstream / Upstream Threshold / Proximity*

Link Monitoring

- Connection to nearest router
- Reachability of up to 4 configurable IPs/host names
- Remote TCP/UDP port monitoring
- Remote HTTP/DNS service monitoring

IP Forwarding

- Static routing, LAN-side routing
- L4 Source routing with dynamic link assignment
- L4 Destination routing with end point monitoring
- Transparent mode on WAN 1
- iNAT: none, 1-to-1, Many-to-1, Many-to-Many
- NAT ALGs : H.323, FTP, SIP
- IPSec pass through and port forward
- Reverse NAT
- IP Mapper for load balancing & backup

WAN IP Assignment

- Direct Ethernet / PPP over Ethernet
- Static IP / DHCP / PPPoE static IP override

LAN IP Assignment

- Up to 8 full Class-A, B, or C Subnets
- DHCP server / DHCP relay

DNS Server

- A & MX records served per load balancing or backup requirements
- Public & private addressing
- Dynamic DNS Client and Server
- High Availability Inbound Load balancing*

Bandwidth Management

- Class-based bandwidth control on each WANs
- Latency guaranteed

Firewall

- Stateful inspection and intrusion detection
- Policy based with access control, DOS protection
- WAN port / DMZ port forwarding security : WAN to WAN port packet forwarding prohibited
- DMZ support
- Reporting Security log to external syslog server

System Configuration/Diagnostic

- Cell Janus web-based GUI, SSL secured, SSH
- SNMPv3: MIB I, II, Enterprise
- System diagnostic via serial console port

High Availability (HA)

- VRRP (Virtual Redundant Router Protocol)
- Require 2 same model devices: e.g. EX + EX

Logs and Report Management

- SNMP traps, email alert on system status change, internal or external syslog server
- Reporting on total utilization, link utilization and day, week, month usage charts
- Reporting on total session, link session and day, week, month usage charts

Cell Janus Centralized Management

- Cell iCMS-Janus management for all Cell Janus Models
- Support remote configuration and reporting

* in the product roadmap

Cell NetsVision, Intelligent Cell Management System (iCMS) Specification

Cell NetsVision, an intelligent Cell Management System (iCMS) is the complete, comprehensive and centralized software management platform to monitor, control and manage for all Cell products including Cell IPS, UTM, CMC, Janus and NetsAccess in a highly performance and scalability purpose. It is designed with Cell's proprietary technology of iPlug-in integration and 3-tier system architecture design, it supports powerful capability of operating, administrating, provisioning, and maintaining all system logs or events via a feature-rich Graphical User Interface (GUI) operated by a Java-based server and client based software platform under Linux Operation System. Please refer to Cell NetsVision Datasheet for specification and ordering information.

About Cell Technology

Cell Technology headquartered at Hong Kong SAR, a network & security technology provider specializes in design, develop and deliver innovative and intelligent IP packet processing platform into software and hardware appliances. Cell product solutions including Cell IPS, UTM, CMC, Janus, TMS, NetsVision and NetsAccess address the business needs that optimize the IP network performance, secure the network security and resiliency, and manage the quality of IP services. For more information, please visit www.cell-technology.net.