TJ6003W

Tejas Evolved Packet Core Solution

TEJAS® NETWORKS

DATA SHEET

Product Highlights

Low foot-print highly scalable platform from 1,000 users to 200,000 users

19 inch rack mountable server platform

Redundant power input

with AC mains OR -48V DC option

Single box integrated solution incorporating all EPC elements:

MME, HSS, PCRF, S-GW and P-GW

High Availability

Distributed Architecture support

Overview

TJ6003W is a compact 19-inch rack mountable form factor system, yet highly scalable to provide all the functions of the 3GPP Enhanced Packet Core. The TJ6003W Tejas EPC is scalable to 200,000 subscribers and up to 48 Gbps data rate with appropriate addition of servers.

For fault tolerance, the EPC system supports "high availability" operation, with redundancy in both control plane and data plane.

Tejas EPC consists of five principal EPC components: MME, HSS, PCRF, SGW and PGW. MME, HSS and PCRF are the control plane components and S-GW, P-GW handle the data plane traffic. All these EPC components run in real time on the optimized server platform.

Tejas EPC is used in conjunction with an external Element Management System (EMS), a web based interface, which is used for managing all these components

Key Benefits

Efficiency: All the components of Tejas EPC - MME, PCRF, HSS, P-GW and S-GW reside on a common high performance server platform.

Distributed Operation: For operational efficiency, it may be required to separate control plane and deploy it physically separate from the data plane. With just software configuration changes, the Tejas EPC allows for this distributed architecture seamlessly.

Redundancy of Control and Data Planes: Tejas EPC can be deployed with 1:1 control plane and N:1 data plane redundancy. This provides high availability for the total solution, in conjunction with redundancy for power supply.

TJ16003W

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Technical Specifications

Technology

3GPP

Modules

MME, PCRF, HSS, S-GW and P-GW

Form Factor

2U, 19 inch rack mountable

87 mm by 445 mm by 720 mm

19 - 26 kg (Configuration dependent)

Power Supply & Consumption

200 - 240 (nominal) V AC; 50 Hz / 60 Hz (Dual power supply) – 48V option available on request

Less than 750 Watts typical

Environmental & EMI-EMC

Operating Temperature: 50C to 450C

Relative Humidity: 10% to 90% non-condensing

ETSI/EN 300386

EN 55024 Class A

FCC Part 15 Class A

Redundancy

Dual power supply

High Availability option (1: 1 redundancy) for control plane

High Availability option (N: 1) for data plane

Management Interface

Configuration and Monitoring through http based EMS

Individual management of all EPC components through EMS

SNMP support

Features

NAS signalling and security
Paging (UE reachability) procedures
Tracking area list management
PDN GW and Serving GW selection
MME selection for handovers with MME change
Roaming (S6a towards home HSS)
Authentication
Bearer Management
Quality of service
Policy enforcement
IPv6/IPv4 support for signalling
IPv4, IPv6, IPv4v6 UE address
Multiple session support for LTE (up to 11)
Multiple bearer support for LTE (up to 11)
Multiple PDP context support
Static Policy or Dynamic Policy Options
IP address allocation through local pool or DHCP
System and subscriber tracing
Alarms
Multiple data path support with single control plane
Lawful Intercept
Rate control with bearer pre-emption
CSG support
Rate enforcement
Buffering of data during idle mode
Emergency call support
IMEI check support using EIR query
GTPv2 based selection of SGW/PGW
Dynamic policy through AF
Multi operator support
Flexible policy control
Offline and online charging options
Standard 3GPP interfaces to Charging System
Optional Radius Integration for Accounting

E & O.E Specifications subject to change without notice

TEJAS NETWORKS

Software-Enabled Transformation

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