The Router 6371 is a compact and temperature hardened cell site router, designed to enable high quality network service delivery while at the same time lowering operating costs through features such as a completely fan-less mechanical design. It provides GE and 10GE interfaces with right cost points, small footprint and superior synchronization features. It supports VPN services over IP/MPLS networks, service provider SDN, service exposure using NETCONF/YANG and extensive quality of service features.

The Router 6371 has strong security features such as IPSec, vendor credential and vendor software authentication ensuring data security even in insecure environments.

The Router 6371 is part of the Ericsson Router 6000 Series, a radio integrated, service provider SDN enabled and subscriber aware IP transport family of products. The Router 6000 offers a range of high-performance routers with resiliency features and form factors optimized for the various needs of metro and backhaul networks.

With 30Gbps of switching capacity, the Router 6371 delivers performance needed to fully support LTE, LTE Advanced, 5G, access sites for years to come.

The Ericsson Router 6000 Series is an essential component of the Ericsson Radio system and is tightly integrated with Ericsson Radio and Microwave to provide high capacity mobile backhaul with unprecedented quality of experience.

All routers in the Ericsson Router 6000 Series run the IP Operating System (IPOS), enabling accelerated feature delivery and operational efficiencies.

Ericsson Network Manager (ENM) manages the complete end-to-end network for both Mobile and Fixed deployments: Radio, Metro and Backhaul, Mobile Core, and Data Center. This enables seamless plug and play capabilities for radio and router installation and network operation.

High capacity and compact outdoor
Provides GE, 2.5GE and 10GE support and 30Gbps of switching capacity in an ultra-compact and hardened form factor enabling lower rental costs and lower OPEX.

Precise and proven synchronization
LTE-A enhancements such as COMP and e-ICIC that enable efficient use of spectrum have strict synchronization requirements. The Ericsson synchronization solution comes pre-verified to work with Radio.

SDN capabilities and programmability
Provides application aware traffic engineering with open and standardized interfaces, enabling network slicing and ability to tailor services for utmost agility.

Designed for low CAPEX and OPEX
Router 6000 series uses merchant silicon and a cost optimized design to lower CAPEX. Fan-less design increase MTBF and removes costly truck rolls every 3 months to inspect the filters, resulting in $1000 yearly OPEX savings/site.

Strong Security
Strong and complete security solution for Macro cell, Small Cell and Aggregation in trusted and untrusted environments enables ubiquitous deployments.

Radio integrated Transport
Provides Radio aware transport for mobile backhaul enabling improved Quality of Experience for end users. Tight hardware and mechanical integration as part of Ericsson Radio System allows significantly easier cell site deployment and lower overall TCO.
Technical specification for Router 6371

Connectivity

**Interfaces:**
- 2x GE / 10GE SFP+ ports
- 4x GE / 2.5GE* SFP ports
- 1x 10 / 100 / 1000 Base-T Ethernet for Out-of-Band Management
- 1x RJ45 console port
- 1x USB port

**Synchronization interfaces:**
- 1x RJ45 port 1PPS+TOD (ITU-T G.783 Amd1)

Mechanical

**System weight:**
4.3kg / 9.5lbs.

**Dimension (H x W x D):**
315mm x 200mm x 63mm

**Air flow:**
Natural air with fan-less design

Electrical

**Power supply DC:**
-48 V

**Power supply AC:**
100-240 V

**Power consumption:**
Typical 31 Watts, Max 52 Watts

Environmental

**Operating Temperature:**
-40°C to +46°C (Plus Solar Loading)

**Relative Humidity:**
0 - 100%, condensing

**GR-5188-CORE Class 4:**
Un-protected Environments Directly Exposed to Weather, IP65

**EN 300 019-1-4 Class 4.1:**
Non-weather protected locations

Key features

**IP Routing MPLS:**

**Ethernet:**
- 802.1Q virtual LAN (VLAN), IEEE 882.3sd Link Aggregation Control Protocol, BVI — Bridged Virtual Interface, QinQ, Q.903 Ethernet Ring Protection Switching, Broadcasting storm protection, LLDP, Jumbo Frames up to 9608 bytes

**Layer-2/Layer-3 Virtual Private Networking:**
- L3 MPLS VPNs, 6VPE, Inter-autonomous-system MPLS VPN (options A, B, C), VPWS for E-Line Services, VPLS/H-VPLS for E-LAN Services, Pseudowire redundancy, MEF CE 1.1/2.0

**Multicast Protocols:**
- IPv4/IPv6 multicast, PIM-DM/SSM, IGMP v1/v2/v3, LMDv2, MVPN

**Timing and Synchronization:**
- IEEE 1588-2008 Precision Time Protocol, ITU-T Profiles for Frequency (G.8265.1 SOOC) and Time/Phase (G.8275.1 T-BC/GM & G.8275.2 T-BC/GM), NTP, SyncE with ESMC, Stratum 3E clock, L1 Assist for PTP

**Operation and Maintenance:**
- IEEE 802.1ag Connectivity Fault Management, ITU-T Y.1731 (DM, SLM and Throughput), Microwave Bandwidth Notification, MACSWAP, MPLS Ping /Traceroute, BFD IPv4 & IPv6 Single Hop, BFD IPv4 & IPv6 Multi Hop, Micro-BFD over LAG, TWAMP Reflector, TWAMP Initiator, Port Mirroring

**Security:**
- Secure boot, Vendor credential, Secure storage, Access control lists, RADIUS, TACACS+, LDAP, SSH v1/v2, MD5 support for routing protocols, Reverse-path forwarding, IPSec up to 8Gbps, IKEv2, CMPv2, CRL

**Quality of Service:**
- Strict-queuing, weighted fair queuing, priority-weighted fair queuing, Multi-tier Hierarchical QoS, 8Gb of packet buffers, RED/Weighted RED, Ingress policing, Egress shaping, 802.1p, MPLS EXP bits, Differentiated Services

**Network Management:**
- Management by Ericsson Network Manager (ENM), Management by Ericsson OSS-RC, Management by Ericsson ServiceOn Element Manager (SoEM), CLI, SNMP v2c/v3, NETCONF, YANG models, Syslog, RMON, PM Job, Zero touch provisioning with auto-integration, Telemetry Streaming *

Standards and specifications

**Safety:**

**EMC**
- EMC Directive 2014/30/EU, EN 303836, EN 301489-1, CISPR 32, EN 55032, CISPR 24, EN 55024, EN 50121-1, EN 50121-4, EN 61000-3-1, EN 61000-3-2, EN 61000-3-4, EN 55132-2, EN 303152-2, ES 20146/1, DTAG 1 TR 9, CFR 47 Part 15, ICES-003, VCCI V-3

**ENV**

**NEBS**
- GR-1089-CORE, GR-65-CORE, SR-3580 (NEBS Level 3), GR-3188-CORE, GR-487-CORE, TT-TP-76200, VZ.TPR.9203, VZ.TPR.9205, VZ.TPR.9385

*Future release

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