

# iCore® 2G GSN

## 2G GPRS Support Node

The iCore® 2G GSN is a compact, carrier-grade GPRS support node facilitating GPRS and EDGE packet data access. The platform can be deployed as a Serving GPRS Support Node (SGSN), Gateway GPRS Support Node (GGSN), or both. Designed to cost-effectively introduce data services to a 2G network, this node fits into the iCore 2G-3G-4G product portfolio as shown below. This architecture enables operators to evolve to future generations through software plug-ins; increasing flexibility and reducing cost of upgrades.

As with all Tecore products, the GSN is fully compliant with the applicable 3GPP standards, is available on a stand-alone basis on a range of carrier-grade hardware platforms, and can also be integrated as a blade in a complete iCore network system. The iCore 2G GSN has been deployed in stand-alone and roaming networks connecting with infrastructure and devices from the industry's leading vendors.

### SPECIFICATIONS

SGSN Capabilities	Mobility Management HLR Addressing Session Management SMS Charging Functions Authentication and Identity Check Security – GEA1 and GEA2 ciphering Compression – using Van
GGSN Capabilities	Subscriber Session/Data Management - dynamic IP addressing, static IP address allocation, five PDP contexts per MS, with different QoS classes Charging Function Routing RADIUS Accounting
Operational Procedures Supported	Anonymous PDP context activation/deactivation procedures Network-Requested PDP Context activation procedure Combined GPRS/GSM procedures for circuit
Operating System	Linux-based processing
SGSN Interface	Base Station Subsystem (Gb) HLR (Gr), EIR (Gf), SMS-IWMSC (Gd), MSC/VLR (Gs) Charging Gateway (Ga) – supports GTP over UDP/IP to connect with an external Charging Gateway Other GSN (Gn)

## FEATURES + BENEFITS

- Streamlined architecture that is scalable and combines features of both SGSN and GGSN in the same physical node
- Interoperable with leading vendors equipment and devices
- Built on Linux OS

### Target Markets

Transportable networks including vehicle-mounted, airborne, and maritime systems

Government and military data applications

Enterprise and university campuses

GGSN Interface	External IP networks (Gi) and other GSN (Gn) HLR (Gc) Charging Gateway (Ga)
Configuration and Manageability	Configuration Management – includes system parameter specifications, the addresses of network components, and the configuration parameters of protocol stacks Fault Monitoring – fault monitoring is achieved by generating alarms Status Monitoring – periodic collection and analysis of data related to a GSN node. The GSN allows the periodic collection of statistics and recording thereof in a log file for analysis. SNMP-Based Management



To learn more about our technology, products, and services, call us at **+1.410.872.6500** or visit us at [www.tecore.com](http://www.tecore.com) ©Tecore Inc.  
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