



CSP-GW GATEWAY

PERSEUS CSP is a telecommunication solutions designed to provide professional users with integrated network and services across heterogeneous technologies and to bring in professional broadband environment the same level of functionalities, services and reliability supplied by narrowband technologies.

The **Gateway (CSP-GW)** provides gateway services to the CSP subscribers connecting the CSP platform with external networks in order to satisfy the increasing need for integration of different communication technologies especially during mission-critical operations.

The CSP-GW implements signalling and media gateway functions between the CSP-CM and external networks (PSTN/PLMN and PABXs) exposing interfaces such as:

- ISDN-PRI
- 2 wires FXO (Foreign eXchange Office)
- 4 wires E&M (ear and mouth)
- Trunking SIP.

MAIN FEATURES

The CSP-GW can be used in different telephone or data network environments. It provides gateway services between the CSP network and the following telephone network technologies:

- VoIP networks (SIP)
- ISDN networks
- Analog telephone networks via 2 Wire FXO or 4 Wire E&M or Legacy Analog Radio Networks via 4W E&M.

The CSP-GW provides two codecs - ACELP and G.711 A-law.

Capabilities

Main services available (some upon request) are:

- L3 Routing
 - OSPF v2
 - BGP v4
 - RIP v1, RIP v2

CSP-GW

- IP Security
 - ACL
 - NAT
- Interfaces
 - 2 port ISDN-PRI
 - 4 port 2wires FXO (Foreign eXchange Office)
 - 8 port 4wires E&M (Ear and Mouth)
 - 4 port Gigabit Ethernet
- VoIP services
 - SIP
- Redundancy
 - Link Bonding
- Management
 - SNMP
- Configuration files.

TECHNICAL DATA

The technical data listed are refer to a typical CSP-GW server HW configuration.

GENERAL	
Dimensions (HxWxD)	88 mm (2U) x 483 mm (standard 19" rack) x 450 mm
Weight	About 10 kg (fully equipped)
Protection degree	IP 20
Cooling system	Air forced cooling system front to rear
Power supply	90-264 VAC, 50-60 Hz
Power consumption	Max. 150 W (fully equipped)
SBC Processor Unit	SBC full size over PCI -X - FSB 1333/1066 MHz Intel Quad Core Xeon, with 2,33 GHz clock each and 12 MB cache Dual GigaBit Ethernet Intel 82575 2 x USB 2.0 port
Backplane	PICMG 1.3 passive backplane 4 slot x PCI-X 64bit@100MHz (6.4Gbit)
RS 232	2x serial port RS-232
LAN4 GigaBitEth	Intel QUAD LAN 10/100/1000BASE-T

ENVIRONMENTAL CONDITIONS	
Storage	Compliant to ETSI ETS 300 019-1-1 class 1,2 standard
Transportation	Compliant to ETSI ETS 300 019-1-2 class 2,2 standard
Operation	Compliant to ETSI ETS 300 019-1-3 class 3,1 (+5° to +40°C) standard
EMC	Compliant to EN 300 386 standard (this standard concerns both emissions and immunity requirements) Emissions limits compliant to EN 55022 class A standard.
Safety	Compliant to CENELEC EN 60950-1 standard

PERFORMANCE	
VoIP configuration ⁽¹⁾	Supporting up to 16 simultaneous VoIP calls via SIP protocol 4
4 wires E&M configuration ⁽¹⁾	Supporting up to 16 simultaneous calls distributed over 4 wires and SIP protocol
ISDN-PRI/Q.SIG+ config. ⁽¹⁾	Supporting up to 16 simultaneous calls distributed among EURO ISDN-RI, Q.SIG+ and VoIP SIP protocol

PERFORMANCE (CONT.)	
FXO configuration ⁽¹⁾	Supporting up to 16 simultaneous calls distributed among FXO and VoIP SIP protocol
ISDN-PRI double config. ⁽²⁾	Supporting up to 60 simultaneous calls distributed among EURO ISDN-PRI, Q.SIG+ and VoIP SIP protocol

⁽¹⁾ CSP-GW low-end is able to provide up to 16 GW calls independently from the HW configuration
⁽²⁾ CSP-GW high-end is able to provide up to 60 GW calls independently from the HW configuration.

