

## Control Room Interface Server

CSP ecosystem is a telecommunication solution 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 **Control Room Interface Server (CSP-CRIS)** is a network element that has been designed to meet control room requirements about redundancy, flexibility and easy integration with third party applications.

The CSP-CRIS provides APIs and SOA Web Services allowing third parties to develop their own control room dispatching applications. Access to the control plane is available via specific APIs and Web services while to the user plane is via SIP+ protocol.

The CSP-CRIS provides also interface to legacy third party non IP-based control rooms.

## MAIN FEATURES

The CSP-CRIS provides to customers a complete set of Public Safety services such as:

- › Individual half/full-duplex calls
- › Group calls
- › Emergency and pre-emptive priority calls
- › Short Data Service (SDS)
- › Dynamic Group Number Assignment (DGNA)
- › Call Authorized by Dispatcher (CAD).

The list of supported functional interfaces towards external components includes:

- › CSP-CRIS to control room clients:
  - specific API-based/SOA Web Service interface for TETRA like signalling and security key management.
- › CSP-CRIS to Network Management System:
  - Management model (MIB) based on the M3100 standard and CORBA.

# TECHNICAL DATA

Main technical data of Control Room Interface Server HW.

## GENERAL

Dimensions (HxWxD)	88 mm (2U) x 483 mm (standard 19" rack) x 450 mm [3,46x19,02x17,72 in]
Weight	About 10kg (fully equipped) [22,05 lb]
Cooling system	Air forced cooling system front to rear
Power input	<ul style="list-style-type: none"><li>› <u>Single VAC</u>: PS2 ATX12V PSU, 400W, AC input (90–240 VAC), PFC w/metal clip and powercord</li><li>› <u>Redunded VAC</u>: Industrial redundant PSU 420W ATX w/PFC dual AC input (90-264 VAC)</li><li>› <u>VDC</u>: PS2 ATX PSU, 400W, input -48 VDC (range -36 to -72 VDC)</li></ul>
Power consumption	Max. 160 W (fully equipped)
SBC Processor Unit	<ul style="list-style-type: none"><li>› SBC full size over PCI -X - FSB 1333/1066 MH</li><li>› Intel Quad Core Xeon, with 2,33 GHz clock each and 12 MB cache</li><li>› Dual GigaBit Ethernet Intel 82575</li><li>› 2 x USB 2.0 port</li></ul>
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 10/100/1000 BASE-T

## ENVIRONMENTAL CONDITIONS

Operation	Compliant to ETSI ETS 300 019-1-3 class 3.1 standard (+5° to +40°C) [41°F to 104°F], (5% to 85% relative humidity)
Storage	Compliant to ETSI ETS 300 019-1-1 class 1.2 standard
Protection degree	IP 20
EC marking	CSP is compliant to the essential requirements of the directives 2014/30/EU, 2014/35/EU and 2011/65/EU
EMC	Compliant to CENELEC EN 55022 and CENELEC EN 55024 standard. Emission limits class A.
Safety	Compliant to CENELEC EN 60950-1 standard.

## PERFORMANCE

Up to 64 simultaneous speech calls and 32 clients



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For more information please email:  
[securityandinformation@leonardocompany.com](mailto:securityandinformation@leonardocompany.com)

Leonardo S.p.a.  
Via delle Officine Galileo, 1 - 50013 Campi Bisenzio (FI) - Italy  
Tel. +39 055 89501  
Fax +39 055 8950600

[leonardocompany.com](http://leonardocompany.com)

MM08558 11-19

