

Empower Your Business Communications with iPECS-CM

iPECS-CM is an All-IP communications platform for medium and large enterprises. iPECS-CM provides IP telephony, various multimedia, applications, and mobility services over IP environment. Today's communications are converged across all media types over one network. iPECS-CM realizes an easy and cost-effective migration into the today's unified communications environment to help increase revenue, save costs and enhance productivity.

Unified system across multiple site and single management point

CCM (Centralized Communication Manager) can have up to 255 LCM (Local Communication Manager) servers which bypass all the signal between CCM and gateways. IP Phone under LCM (bypass mode) in normal condition, which means it is a single system through WAN IP network. Thus, the administrator needs to access only CCM for system configuration and maintenance, and all the system data in CCM synchronizes to LCM servers automatically. In case of WAN failure between CCM and LCM, the LCM works as a standalone Communication Manager (in local survival mode) and supports PSTN fail-over as an option. Once WAN is recovered, automatically LCM returns to bypass mode and sends all SMDR generated during local survival mode to CCM.

High Reliability

- The iPECS-CM's redundancy guarantees stable communications for your business.
- Geographical Call Server redundancy (up to 8 regions)
- Active / Standby Call Server clustering (up to 16 for CCM across all geographical redundancy regions, up to 2 for LCM)
- Power and Ethernet Link redundancy for Call Server and CM-MGC
- Local survivability and PSTN fail over for WAN fail (S2K or MFIM)
- GW and IP Phone Dual Profile for LCM fail (in case LCM fails, all gateways and IP phones under the LCM work with CCM directly)
- Application Interface redundancy for SMDA (up to 4), CSTA CTI (up to 5)
- Automatic System Database backup

Full & Flexible Scalability

The iPECS-CM's server-based system with various modular-type gateways working on IP-backbone offers full scalability from small office to large enterprise environments.

- CM-S1K / S2K / S4K / S10K / S30K call servers based on capacity
- Scale up to 30,000 users with 255 Local Survival Branches (254 tenants support for large business building)
- Scale down with MFIM : Compatible with MFIM 50~ MFIM 1,200

Call Server

Model	CM-S1K	CM-S2K	CM-S4K	CM-S10K	CM-S30K
Max. User	1,000	2,000	4,000	10,000	30,000
Server Option	Standard Server can be used	Standard Server can be used	Standard Server	Standard Server	Standard Server
CPU	Single ATOM 1.6G	Single ATOM 1.6G	Intel 2.4G single (Quad-Core)	Intel 2G dual (Quad-Core)	Intel 2.9G dual (Quad-Core)
RAM	2GB	2GB	4GB (DDR3)	4GB (DDR3)	4GB (DDR3)
HDD	SATA 160GB	SATA 160GB	SATA 250GB 2ea	SATA 250GB 2ea	SAS 300GB 2ea

Gateway Module

iPECS-CM has 3 types of TDM network or terminal gateway modules and 1 type of resource module working for media processing and VoIP routing.

Item	Details	Max Port
CM-SLTM(MW)	SLT Gateway Module	Max 32 Port
CM-MATM	Analog TDM Trunk Gateway Module (ACO, LD, E&M)	Max 16 Port
CM-MDTM2	Digital TDM Trunk Gateway Module (T1/E1, PRI, No.7, QSIG)	Max 30 Port
CM-VPCM	Resource Module for Voice Conference, VMS, Voice Prompt, Transcending, IP Rerouting	Max 256 channel



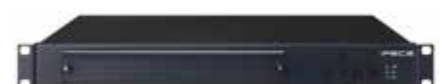
CM-S2K



CM-S1K



CM-MGC2 (5U/6 universal slots)



CM-1URMC (1U)

Key Features

- Web Based Maintenance System (JAVA)
- Multi Tenant with individual numbering plan
- ICLID (Incoming Call Line ID) Routing
- Mobile Extension with One number Service
- ACD (Automatic Call Distribution)
- Voice Recording
- Multiple Conference
- CDR (Call Duration Restriction)
- SMDR Record
- Traffic Report
- Advanced ARS (Alternative Route Selection)
- LCR (Least Cost Routing)
- CCR (Caller Controlled Routing)
- Hot Desk
- Phone Link
- Branch Line / Bridge Line
- Command Call
- Internal Paging
- Authorization Code
- PTT (Push To Talk)
- Manager / Secretary Service
- Spam call protecting
- Auto attendant and voice mail
- Headset Link for IP Attendant
- Multiple numbers
- Virtual Subscriber Service
- CID Conversion
- Fax Bridge and ARS Digit Conversion Class
- Hosted Service Solution
- Hotel Package
- Suite Room

Standard Interfaces

- E1/T1 (DTMF/R2), PRI
- SIP Trunk and Extension
- T.38
- H.323 Trunk
- QSIG through PRI
- TAPI
- CSTA CTI
- TR.87 (CSTA V3-XML)
- SNMP
- LDAP
- XML
- LLDP / LLDP-MED
- 802.1x
- 802.1p/Q
- sRTP
- AES

Proprietary Interfaces

- Billing
- PMS
- IVVR (SIP base) for IVR
- IP Networking through H.323/H.450
- UCTI API and SAPP for 3rd party UC
- SAPP (SOAP base) for 3rd party UC

Applications

- Phontage
- iPECS Communicator
- iPECS Attendant
- iPECS UCS
- iPECS CCS
- iPECS IPCR
- iPECS ClickCall
- iPECS RCC Gateway/Client for MS Lync
- CM NMS

3rd Party Applications

- Fidelio PMS (Opera)
- MS OCS 2007 R2 / Lync 2010 & 2013
- IBM Lotus Sametime

Supported Terminals

- LIP-9070
- LIP-9000 Series
- LIP-8000/LIP-8000E Series
- IP8800/IP8800E Series
- IP DECT (GDC-800H)
- WIT-400HE
- LDP-7000 / LDP-9000 Series

System Capacity

	CML-S2K	CML-S4K	CML-S10K	CML-S30K
Channels	2,000	4,000	10,000	30,000
BHCC	Max 500,000			
Extension (IP+TDM)	2,000	4,000	10,000	30,000
Trunk (IP+TDM)	1,000	2,000	5,000	10,000
Media Gateway	1,000	1,000	2,500	8,000
LCM	255			
Tenant	254			
System Speed Code	3,000 (32 digits)			
Conference room	100			
Conference member	128 / CM-VPCM			
Attendant	30 / tenant			
TAPI agent	1,200			
IPCR Server	5 / tenant			
SMDR	1,000,000			
UCS	250 / tenant			
Groups	800			
ACD Agent no. / group	1,000			
Concurrent Log-in	2,000	4,000	6,000	6,000

Dimension & Weight

	CM-MGC2	CM-1URMC	CM-S1K	Gateway Module	CM-PSUA	CM-PSUD
WxLxH (mm)	443 x 370.4 x 221.5	440 x 361.8 x 43.4	436 x 344.5x 53	255 x 334.5 x 30	140 x 334.7 x 59.7	140 x 334.7 x 59.7
Weight(kg)	20	5.5	4.46	-	1.87	0.85

Power Requirement

		Specification
PSUA	AC Input	186-276 VAC@ 50/60 Hz
	Fuse	T6.3A, AC250V
	DC Output	-54VDC/12A, +5VDC/15A
PSUD	DC Input	DC -44V ~ -58V
	Fuse	T15A, AC250V
	DC Output	+5VDC/15 A
PSUA-1U	AC Input	88-276 VAC @ 50/60 Hz
	Fuse	T6.3A, AC250V
	DC Output	-50VDC/2.5A, +5VDC/3A
PSUA-S1K	AC Input	90-270 VAC @ 50/60 Hz
	Fuse	T2A, AC250V
	DC Output	+30V/1.85A, +5V/4A

Environment Condition

		Condition
Temperature	Operation	0~40℃
	Storage	0~70℃
Humidity	Operation	20~80% non-condensing
	Storage	10~95% non-condensing

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Ericsson-LG Enterprise Co., Ltd.
 (431-749) 77, Heungan-daero 81 beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, South Korea
www.ericssonlg-enterprise.com | www.iPECS.com

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