

# 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 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

- 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 in case CCM or WAN fail (S2K or MFIM)
- PSTN failover for in case WAN fail (S2K or MFIM)
- Direct CCM connection in case LCM fail for GW and IP phones
- Application Interface redundancy for SMDA up to 4 and CSTA CTI up to 5
- Automatic system database backup

## Full and Flexible Scalability

- iPECS-CM's server-based system with various modular-type gateways working on IP-backbone offers full scalability from small to large enterprise environments.
- CM-S2K/S4K/S10K/S30K call servers based on capacity
  - Scale up to 30,000 users with 255 local survival branches
  - Support maximum 254 tenants
  - iPECS UCP call servers can be used as a LCM

## Call Server

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



CM-S2K

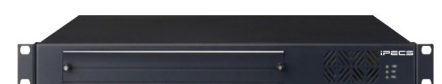
## Gateway Module

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(Message Wait)	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, Voice Mail, Audio Announcement & Promt, Voice Codec Transcoding ending, VoIP RTP Rerouting	Max 256 channel



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 Detailed Records)
- Call Statistic Report
- Advanced ARS(Alternative Route Selection)
- LCR(Least Cost Routing)
- CCR(Call 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(Interactive Voice and Video Response)
- IP Networking through H.323/H.450
- UCTI API for 3rd party UC agent integration
- SAPP(SOAP base) server API for 3rd party UC

## Applications

- iPECS UCS
- iPECS ClickCall
- iPECS RCC Gateway for MS Lync/SfB
- Phontage
- iPECS Attendant
- iPECS CCS
- iPECS Report Plus for Call Statistic & Billing
- iPECS IPCR
- CM NMS

## 3<sup>rd</sup> Party Applications

- Fidelio PMS(Opera)
- MS Lync/SfB(EV mode)

## Supported Terminals

- LIP-9070/71
- LIP-9000 Series
- LIP-8000/LIP-8000E Series
- IP8800/IP8800E Series
- IP DECT(GDC-800H)
- WIT-400HE
- LDP-9200/9000/7000 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	1/system			
Groups	800			
ACD Agent No./group	1,000			
Concurrent Login	2,000	4,000	6,000	6,000

## Dimension & Weight

	CM-MGC2	CM-1URMC	Gateway Module	CM-PSUA	CM-PSUD
W x L x H(mm)	443 x 370.4 x 221.5	440 x 361.8 x 43.4	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	-	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

## 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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