### The complete telephony solution in a box





#### **DATA SHEET**

# Access to a new world of feature rich, connected anywhere telephony, at low cost and low risk

Com.XI is both a flexible and feature-rich Hybrid-PBX and IP-Gateway solution in a single IU box.

Com.XI provides a scalable and powerful telephony solution for small to medium installations.



#### **Features**

- Powerful VoIP and legacy TDM telephony convergence
- 50+ Users: IP Phone or Analogue phone support (no additional licenses require)
- 32 simultaneous calls
- SIP trunking: 12 simultaneous G.729 CODEC's
- Base system supports I x PRI, up to 4 x BRI, up to 16 x FXS / FXO ports and 50+ VoIP extensions
- · Seamless expansion by means of additional rack mount Comma iTA units and an Ethernet interconnect
- IP phone support: SNOM, Yealink, Polycom, Siemens Gigaset and many others
- IU rack-mount or desk mount unit
- Sophisticated PBX feature set: Voice Mail, Voice Mail-to-email, Call Recording, Auto-Attendant / IVR, Call
  Queuing, Conference, Music on Hold, Roaming Extensions, Operator Panel, Call Detail Records and many
  others
- Powerful IP-Gateway features: "FlexPath" call-routing, "behind PBX working" supports satellite offices
- Voice Recording: 300,000 minutes on device, unlimited backup to external devices
- Web-based GUI management user friendly, install and configuration "wizard"
- Telephone Management System (TMS) support for: MAN3000, TNG, Unison, A2Billing and others
- VoIP QoS and bandwidth optimization: "ViBE" integration from Voipex (UK)
- ICASA type approval
- Neotel IP-PBX certification

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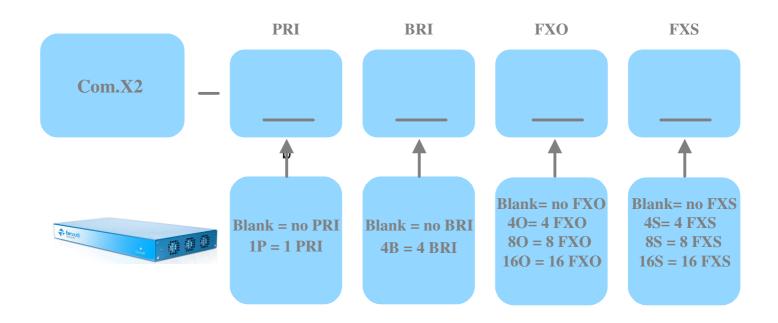


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### **Ordering Information**

#### **Part Number Generator**

The Com.XI is modular, with the ordering code made up as follows. Not all combinations are possible.



Note: Total FXS plus FXO ports may not exceed 16 ports per Com.X1 unit.

Part number examples:	
Com.XI-4012S	Hybrid-PBX with wired telephony support for 4 FXO & 12 FXS
Com.X1-4B32S	Hybrid-PBX with wired telephony support for 4 x BRI & 32FXS
Com.XI(G)-8O8S	IP-Gateway feature set only, with telephony support for 8 FXO & 8 FXS
Com.XI(G)-4B	IP-Gateway feature set only, with telephony support for 4 BRI ports (TE or NT mode)

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### **Technical Specifications**

Host Processing Platform					
CPU	Via C7 1.5 GHz				
Memory	512 MHz DDR2 stan	ndard			
Storage		32GB SATA SSD / 8 GB Compact Flash (optional)			
I/O Ports		AN, 2 x USB 2.0, 1 x RS			
Operating System	Ubuntu Linux 8.04 L		, , ,		
Telephony Interfaces (per un	it)				
. , , , , , , , , , , , , , , , , , , ,	Primary Rate	Basic Rate	Analog (FXS)	Analog (FXO)	
Voice Ports	30 (EI), 24 (TI)	8	4, 8, 16	4, 8, 16	
		rt expansion supported	via connection of Comma iTA units		
Physical	RJ-45	4 x RJ-45	RJ-11	RJ-11	
Electrical	E1/G.703 120Ω T1/G.703 100Ω	S/T TE or S/T NT (software selection)	Zone dependent, software programmable DC and AC characteristics. Balanced sinusoidal ringing (3 REN)	Zone dependent, software programmable impedance matching.	
Protection	Power cross Inter-building	-	Power cross Inter-building	Power cross Inter-building	
Conformance	TBR 4	TBR 3		Country-dependent	
Voice Features					
Echo Cancellation	Up to 64 channels at	Hardware based G.165 type adaptive echo cancellation per channel Up to 64 channels at 16 ms or 32 ms Up to 32 channels at 64 ms			
Hardware Codecs		-	G.711 A-law or µ-law	G.711 A-law or µ-law	
Software Codecs		G.711, G.726, iLBC, SPEEX, GSM G.729A (optional with license purchase)			
Fax and Modem	Packet-network sync	chronization and G.711 p	provide transparent fax/modem sup	port	
Signalling					
Signaling System	ISDN PRI - ETSI ISDN PRI - NI-2 EI-CAS TI-CAS	ISDN BRI – ETSI ISDN BRI - NI-2	Loop-start DTMF	Loop-start DTMF	
Other Features	Configurable network clock synchronization	Configurable network clock synchronization	Caller ID transmission Hook flash Distinctive ring	Caller ID reception	
Packet Interfaces					
VoIP	SIP + RTP IAX2 + RTP				
Administration					
Management	Web based GUI, incl	luding platform backup a	nd restore		
Logging		Log (with configurable levels)			
Field upgrade		Application and firmware remote update from hosted repository			
Call Detail Records	MySQL database for	MySQL database for CDR			
Physical Characteristics					
Power	12VDC, 5A via exter	12VDC, 5A via external AC/DC adapter (supplied)			
Environmental	0°C - 40°C				
LITTI OTTICICAL	427mm x 200mm x 43mm				
Dimensions	427mm x 200mm x 4	<del>1</del> 3111111	Desktop, IU rack mount (mounting kit supplied)		
			lied)		
Dimensions			lied)		
Dimensions Mounting Certification	Desktop, IU rack me	ount (mounting kit supp	lied)		
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#### **PBX** Feature Set

For a full description of all Com.XI features refer to Com.XI Administrators Guide, available at: <a href="http://archive.farsouthnet.com/doc/com.X-administrator-guide.pdf">http://archive.farsouthnet.com/doc/com.X-administrator-guide.pdf</a>

The list of features provided below is common across all Com.X1 platforms:

Basic Features				
Remote Management:	<ul> <li>Outbound route configuration (least cost routing and fail- over support)</li> </ul>			
<ul><li>Monitoring</li><li>Backup and restore</li></ul>	<ul> <li>Inbound route configuration (Conferences, Day/Night, Ring Groups, Voice mail, IVR, Phonebook)</li> </ul>			
Analogue and IP phone configuration	Announcements			
<ul> <li>IP-phone support: SNOM, Yealink, Polycom, Gigaset and more</li> </ul>	• Conferences			
Follow me and divert	Feature codes			
Unlimited voice mail & voice mail to email	Music on Hold			
Call Recording, 300,000 minutes (on-demand or all calls)	<ul> <li>Call Data Records and TMS support (MAN3000, TNG, A2Billing, Unison and others)</li> </ul>			
SIP trunks (with dynamic trunk fail-over)	Operator Panel			
Trunk health detection				

Advanced Features	
Hot-desking	Interactive Voice Response (IVR)
Remote extensions	Parking lots
IP Phone auto-configuration	• Pin sets
"Flexpath" routing:	• Queues
Class of Service	Ring groups
<ul><li>Partitioning / Multi-tenant</li><li>Trunk to trunk Gateway</li></ul>	Voice mail blasting
· ·	Listening in on calls - "spy" feature
Legacy PBX remote extension gateway	Phone book
Immediate dialling	Paging and Intercom
Call back	Advanced Operator Panel
Budget Router ("premicell" contract support)	Fax Server