Com.X IAG brochure
Integrated Access Gateway

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

Voice, Data & Web Services Convergence
- "3-in-One": Router/Firewall + IP Gateway + (optional) PBX
- Managed Voice and Data services
- Web Real Time Communication services

"3-in-One" SOHO to SMME Business Solution
- Zero hardware obsolescence: Flexible, high availability, secure IP Gateway Router supports migration to "in-the-box" PBX
- Enhanced Service Levels / Reduce support costs: Secure web access integrating reporting and diagnostic tools

The Integrated Communicator
- Managed Services: ready, for secure, host portal to connect, provision and maintain ANY Com.X device on ANY network
- Data: Router, Firewall, Networking, QoS
- Telecoms: Analogue (FXS, FXO), ISDN (BRI, PRI)
- VoIP: SIP (TCP & UDP), IAX2
- WebRTC
- Broadband IP: ADSL2+, X.21, Ethernet
- Fixed Wireless Access: 3G or LTE
- Software upgrade: path to "PBX in the box"

Main features
- Rack or Desk-mount
- Managed Services: Connect, Provision, Monitor centrally via secure host portal
- CODEC’s: Opus, G.729a, G.723, G.711, G.726, ILBC
- Interfaces: IP (WebRTC & SIP), Analogue, BRI, PRI
- LAN / WAN:
  - ADSL2+ (RJ-11)
  - X.21 (DB15)
  - 4-port Gigabit Ethernet (RJ-45)
  - 802.11a/b/g Access Point
- Fixed Mobile Access: 3G/LTE, 1 SIMM, external antenna
- T.38 fax
- Diagnostics tools: SIPp & Wireshark
- On-line, remote software updates
- Certification: TBR3, TBR4, TE-001, EN60950, CISPR22
- South African design & manufacture
- 1-year h/w warranty & 1-year s/w assurance
- ICASA type approval
- Neotel approved

Protocols: HDLC, PPP/PPPoE, IPv4
Networking: DDNS, DHCP, VPN, NTP, SSH, HTTP, VLAN
Router: NAT & NAT traversal, SIP ALG, Port forwarding
Firewall: Policy and Access Control Lists, Filters, DMZ
QoS:
  - Class of Service:
    - VLAN Priority Code Points, IEEE 802.1P
    - Differentiated Services Code Points (DSCP)
  - Traffic Shaping (upgrade path)
  - Quality of Service: VIBE integration
IP Gateway
  - WebRTC, SIP, Analogue, ISDN
  - Back-to-Back User Agent (B2BUA)
  - Call Recording, on device
PBX upgrade
  - Unified communications feature set
  - Analogue, DECT & IP phone support
Seamless telephony port expansion via LAN based Comma ITA
# Com.X Short-form Specification

<table>
<thead>
<tr>
<th></th>
<th>Com.X5 Lite</th>
<th>Com.X5</th>
<th>Com.X10</th>
<th>Com.X20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Image</strong></td>
<td><img src="image1" alt="Com.X5 Lite" /></td>
<td><img src="image2" alt="Com.X5" /></td>
<td><img src="image3" alt="Com.X10" /></td>
<td><img src="image4" alt="Com.X20" /></td>
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<tr>
<td><strong>Market</strong></td>
<td>SOHO</td>
<td>Smaller SMME</td>
<td>Larger SMME</td>
<td>Enterprise</td>
</tr>
<tr>
<td><strong>Users</strong></td>
<td>5 to 20</td>
<td>20 to 50</td>
<td>50 to 100</td>
<td>100 to 450</td>
</tr>
<tr>
<td><strong>Maximum external calls</strong></td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>30, 60, 90 &amp; 120</td>
</tr>
<tr>
<td><strong>Server Specification</strong></td>
<td>Intel Atom E620 600MHz RAM: 512MB DDR2</td>
<td>Intel Atom E660 1.3GHz RAM: 512MB DDR2</td>
<td>Intel Bay Trail N2930 CPU Quad core 1.83GHz RAM: 4GB DDR3</td>
<td>Intel i7-3612QE CPU RAM: 8GB DDR3</td>
</tr>
<tr>
<td><strong>Maximum G.729a CODEC's</strong></td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>30, 60, 90 &amp; 120</td>
</tr>
<tr>
<td><strong>Non-volatile Memory Capacity</strong></td>
<td>16GB SD</td>
<td>64GB SSD, or 500GB RAID I HDD</td>
<td>64GB MSATA Optional: Dual 1TB RAID I HDD</td>
<td>128GB SSD, or Dual 1TB RAID1 HDD</td>
</tr>
<tr>
<td><strong>Form-factor</strong></td>
<td>Half 19” x 1U</td>
<td>19” x 1U</td>
<td>19” x 1U</td>
<td>Multiple 19” x 1U</td>
</tr>
<tr>
<td><strong>Extensions</strong></td>
<td>IP 2 to 4 analogue (FXS)</td>
<td>IP 2 to 24 analogue (FXS)</td>
<td>IP 2 to 8 analogue (FXS)</td>
<td>IP 100’s analogue (FXS)</td>
</tr>
<tr>
<td><strong>Trunks</strong></td>
<td>SIP 2 to 4 analogue (FXO) 2 BRI</td>
<td>SIP 2 to 24 analogue (FXO) 4 to 8 BRI</td>
<td>SIP 2 to 8 FXO 4 to 8 BRI 1 to 2 PRI</td>
<td>SIP 100’s analogue (FXO) Multiple BRI (Up to) 12 PRI</td>
</tr>
<tr>
<td><strong>WAN</strong></td>
<td>- ADSL2+</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Fixed Wireless</strong></td>
<td>HSPA+ 21Mbps (850/900/1900/2100 MHz) and LTE 100Mbps (800/900/1800/2100/2600 MHz)</td>
<td></td>
<td></td>
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<tr>
<td><strong>Telephony Expansion</strong></td>
<td>Unlimited, refer to Comma iTA product page</td>
<td></td>
<td></td>
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<tr>
<td><strong>Ports</strong></td>
<td>4 * 100/1000Base-Tx USB2.0: 2</td>
<td>2 to 3 * 100/1000Base-Tx USB2.0: 2</td>
<td>4 * 100/1000Base-Tx USB2.0: 6</td>
<td></td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>1U rack or desk mount</td>
<td>1U rack or desk mount</td>
<td>1U rack or desk mount</td>
<td>19 ” rack mount</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>225mm x 200mm x 44mm</td>
<td>445mm x 200mm x 44mm</td>
<td>427mm x 200mm x 44mm</td>
<td></td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>12Vdc, 2.5A via ext AC/DC adapter</td>
<td>12Vdc, 5A via ext AC/DC adapter</td>
<td>12Vdc, 5A via ext AC/DC adapter</td>
<td>220V, 50Hz &amp; 12Vdc, 5A ext AC/DC adapter</td>
</tr>
<tr>
<td><strong>Maximum recorded channels</strong></td>
<td>4 (SD card)</td>
<td>8 (SD card)</td>
<td>16 (SATA drive)</td>
<td>30, 60, 90 &amp; 120</td>
</tr>
<tr>
<td><strong>Recording Capacity</strong></td>
<td>SD: 100,000 min (gsm format) SSD: 500,000 min (gsm format) HDD: 1,000,000 min (A-law format)</td>
<td>SSD: 500,000 minutes (gsm format) HDD: 1,000,000 minutes (A-law format)</td>
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