



Com.X1 & Com.X2 Fixed Wireless Application

The Com.X1 and Com.X2 Intelligent Branch Exchanges, provide feature-rich Hybrid-PBX and IP-Gateway solutions. Com.X technology supports a complete and highly flexible telephony service infrastructure for wireless telephony deployment.

Comma iTA, Intelligent Telephony Adapter, is a flexible and comprehensive telephony interface solution for Asterisk™-based telephony installations.

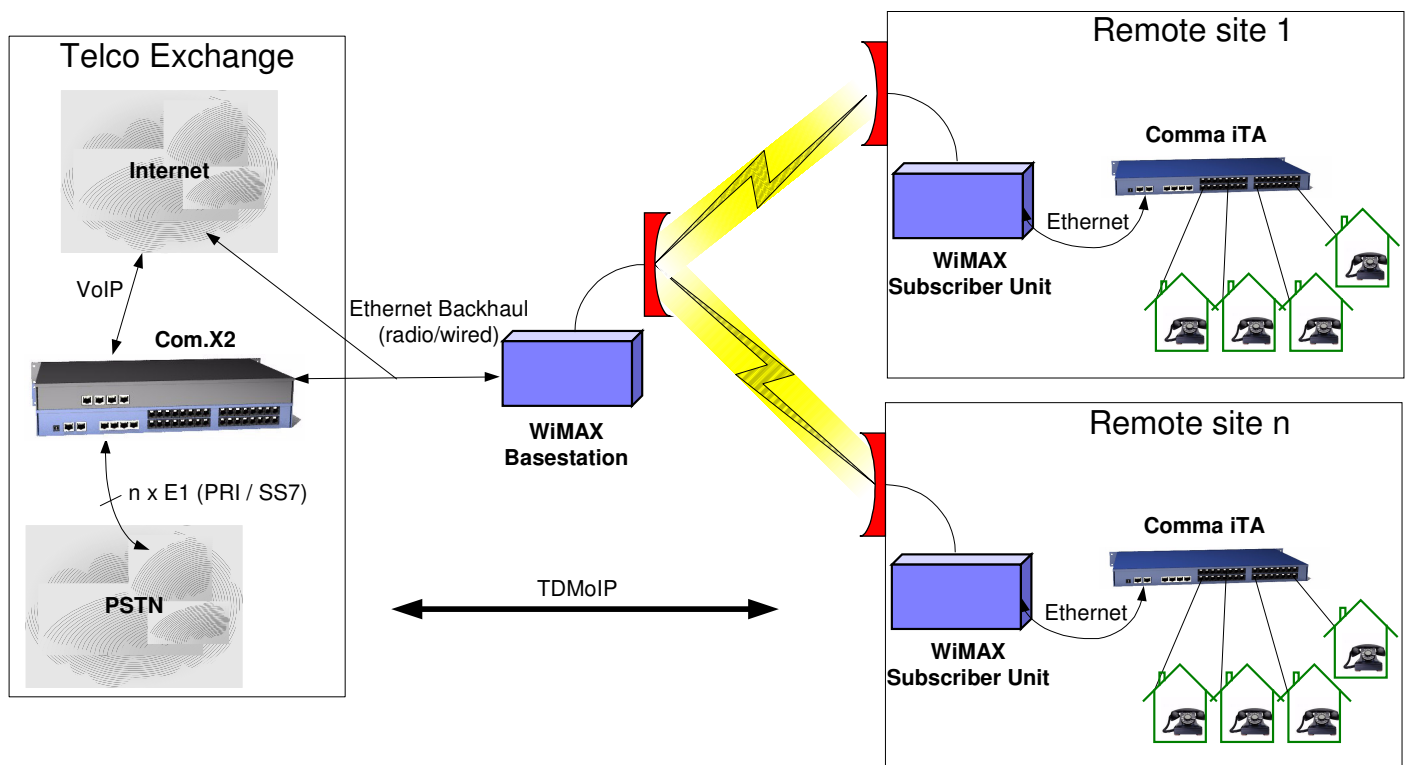
Comma products can help wireless service providers achieve their service and business goals through their rich feature set, convergence capabilities and competitive pricing.

Hybrid Copper and Wireless Access

At a Telco exchange site, or at a site with backhaul access to the PSTN, Com.X1 or Com.X2 units provide a standards-based interface to the PSTN via Primary Rate ISDN or SS7, as well as Voice-over-IP gateway services for SIP trunking.

Multiple Comma iTAs provide POTS access for up to several hundred subscribers per Com.X installation from one or more remote sites. Access to the Com.X2 site is provided by Wireless multi-point Ethernet, typically WiMAX. If data access is required, ADSL DSLAMs may be collocated at the remote sites, sharing the access and backhaul bandwidth with the POTS services.

The voice circuits maintain full quality and low latency over the air interface, using TDMoIP circuit-based transport.



Com.X1 & Com.X2 *Intelligent Branch Exchange*

Fixed Wireless Application

Enhanced Services

Com.X2 provides telephony service for many hundreds of subscribers per installation, with a full corporate PBX feature set which includes Voice Mail, IVR, Call Detail Records, Conferencing, Music on Hold and much more.

Com.X1 provides full "behind the PBX" or Satellite Office support

A standard set of advanced features can further be enhanced to differentiate your service offering. The inherently open-source nature of the software platform makes customization and extension of the basic system not only possible, but within easy reach.

Com.X2 & Com.X1 Features

Linux and Asterisk-based platforms support application-dependent customization through open interfaces (SIP, PRI) and through the inherently open-source nature of the software platform.

- PSTN connectivity via PRI, BRI, analogue, and optional SS7
- SIP Voice-over-IP supporting G.711, G.722, G.726, G.729, GSM, iLBC, Linear, LPC-10, Speex
- Hardware-based echo cancellation for PSTN connections
- Sophisticated subscriber PBX features enabled in a semi-hosted environment
- GUI web-based management - user friendly, install and configuration "wizard"
- Platform backup and restore to external "devices"
- Online updates from Far South Networks public server (utilizing advanced Debian/Ubuntu based package management)
- Remote inventory & automatic configuration management and monitoring

Comma iTA Features

- 1U rack-mount unit supports high density installations
- Echo cancellation for all channels
- Timing synchronization of multiple units over Ethernet
- 100Base-T Ethernet connection to access/backhaul network carries voice circuits using TDMoIP or TDMoE, preserving full quality and low latency
- T1/E1 PRI, 1 port
- FXS and FXO, up to 32 ports
- BRI, up to 8 ports

Other application examples

- Corporate PBX / Call Centre
- Pre-paid voice service provisioning
- VoIP and TDMoIP gateway
- Multi-tenant units and Gated Communities