
Com.X5 & Wanderbox duo comparison



<http://www.farsouthnet.com>

Quick Start

Version 1.0, February 10, 2017

This document presents a comparison between Com.X5Lite and Wanderbox product, from an installation and configuration perspective.

Other relevant technical documents:

Com.X Administrator's Guide: <http://www.farsouthnet.com/wp-content/uploads/2011/06/Com.X-administrator-guide-1.3-ver3.0.4.pdf>

Wanderbox and Com.X user guides and install guides are available at: <http://www.farsouthnet.com/support/manuals/>

Summary of differences

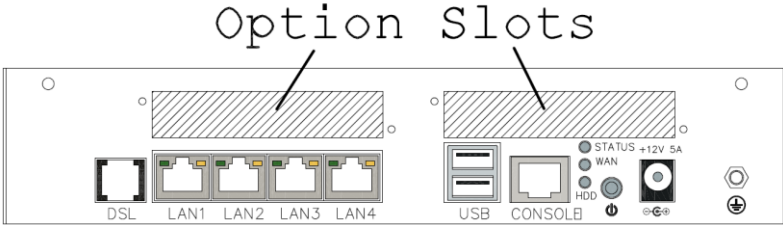

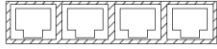

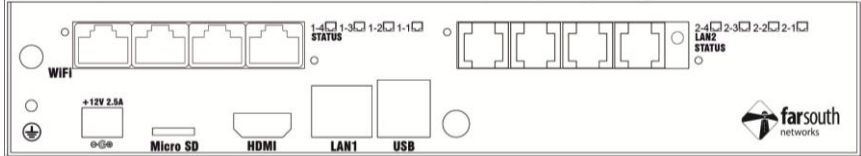
- Packaging (X5 = rack or desk mount, Wanderbox duo = desk mount)
- Console port (X5 = RJ45, Wanderbox duo = USB)
- Quantity of LAN (X5 = 4 Ethernet, Wanderbox duo = 1 or (optional) 2 Ethernet & WLAN)
- Recording storage: (X5 = 16GB SD card or 60GB SSD, Wanderbox duo = 8GB expandable to 32GB micro SD card)



Summary of similarities

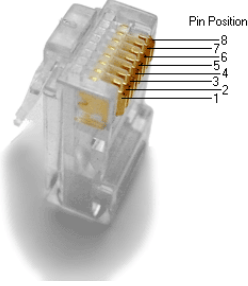
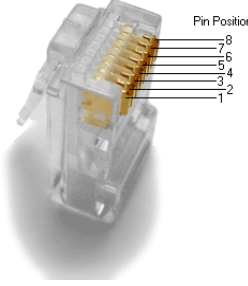
- Software packages and components (identical GUI, SSH etc)
- Telecoms ports: Basic Rate ISDN, Analogue PSTN lines (FXO), Analogue phones (FXS)
- VoIP/SIP: 8, 12 and 16 channels

Overview

The table below presents an overview of the differences and similarities between the Com.X5Lite and Wanderbox duo products, with particular focus on installation and configuration support:

Features	Com.X5Lite	Wanderbox
Mechanicals	½ * 19" rack mount or desk mount	½ * 19" rack mount or desk mount
Interfaces	<p>Rear view:</p>  <p>Option Slots</p> <p>Options</p> <ul style="list-style-type: none"> or  BRI Card or  2FXO-2FXS or  X.21 Card <p>2 telecom line card slots:</p> <ul style="list-style-type: none"> • 2 FXO x 2 FXS, 4 FXS or 4 FXO • 4 port Basic Rate ISDN (TE or NT mode) 	<p>Rear view:</p>  <p>2 telecom line card slots:</p> <ul style="list-style-type: none"> • 2FXO x 2 FXS, 4 FXS or 4 FXO • 4 port Basic Rate ISDN (TE or NT mode) • 1 port 10/100Base-T Ethernet

Visual indications	<p>Front panel LED:</p> <ul style="list-style-type: none"> • RED, System boot fault • YELLOW, Boot • YELLOW, Flashing: Waiting for PSTN connectivity • GREEN: System operational 	<p>Front panel LED:</p> <ul style="list-style-type: none"> • RED, System boot fault • GREEN, System operational <p>(Telephony) Status LED:</p> <ul style="list-style-type: none"> • GREEN, Fully functional • GREEN Flashing, internal network error • ORANGE, Booting state • RED Flashing, Fault state • OFF, Power off 																																										
Telephony slots	<p>Slots</p> <ul style="list-style-type: none"> • Slot 1: Port 1 to 4 • Slot 2: Port 5 to 8 	<p>Slot:</p> <ul style="list-style-type: none"> • Slot 1: Port 1 to 4 • Slot 2: Ports 5 to 8 																																										
Analogue (FXO & FXS)	<p>Standard RJ11 pin out</p>  <table border="1" data-bbox="371 1222 819 1445"> <thead> <tr> <th>Position</th> <th>Pin#</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>-</td> </tr> <tr> <td>2</td> <td>2</td> <td>-</td> </tr> <tr> <td>3</td> <td>3</td> <td>Tip</td> </tr> <tr> <td>4</td> <td>4</td> <td>Ring</td> </tr> <tr> <td>5</td> <td>5</td> <td>-</td> </tr> <tr> <td>6</td> <td>6</td> <td>-</td> </tr> </tbody> </table>	Position	Pin#	Definition	1	1	-	2	2	-	3	3	Tip	4	4	Ring	5	5	-	6	6	-	<p>Standard RJ11 pin out</p>  <table border="1" data-bbox="1274 1214 1722 1445"> <thead> <tr> <th>Position</th> <th>Pin#</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>-</td> </tr> <tr> <td>2</td> <td>2</td> <td>-</td> </tr> <tr> <td>3</td> <td>3</td> <td>Tip</td> </tr> <tr> <td>4</td> <td>4</td> <td>Ring</td> </tr> <tr> <td>5</td> <td>5</td> <td>-</td> </tr> <tr> <td>6</td> <td>6</td> <td>-</td> </tr> </tbody> </table>	Position	Pin#	Definition	1	1	-	2	2	-	3	3	Tip	4	4	Ring	5	5	-	6	6	-
Position	Pin#	Definition																																										
1	1	-																																										
2	2	-																																										
3	3	Tip																																										
4	4	Ring																																										
5	5	-																																										
6	6	-																																										
Position	Pin#	Definition																																										
1	1	-																																										
2	2	-																																										
3	3	Tip																																										
4	4	Ring																																										
5	5	-																																										
6	6	-																																										

Basic Rate ISDN	Standard RJ45 pin out	Standard RJ45 pin out																																																																								
<p>Ethernet (LAN/WAN)</p>	<p>Four 10/100/1000Base-Tx Ethernet interfaces</p> <p>Connector type: RJ45, 8P8C type</p>  <p>Connector pin-outs:</p> <table border="1" data-bbox="371 667 1113 962"> <thead> <tr> <th>Position</th> <th>Pin#</th> <th>Function</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>Tx+</td> <td></td> </tr> <tr> <td>2</td> <td>2</td> <td>Tx-</td> <td></td> </tr> <tr> <td>3</td> <td>3</td> <td>Rx+</td> <td></td> </tr> <tr> <td>4</td> <td>4</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> <tr> <td>5</td> <td>5</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> <tr> <td>6</td> <td>6</td> <td>Rx-</td> <td></td> </tr> <tr> <td>7</td> <td>7</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> <tr> <td>8</td> <td>8</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> </tbody> </table> <p>Cable: Cat5 or 5e cable as defined by TIA/EIA-568-B</p>	Position	Pin#	Function	Comments	1	1	Tx+		2	2	Tx-		3	3	Rx+		4	4	-	Balance "Bob-T" termination	5	5	-	Balance "Bob-T" termination	6	6	Rx-		7	7	-	Balance "Bob-T" termination	8	8	-	Balance "Bob-T" termination	<p>One or Two 10/100Base-Tx Ethernet interfaces</p> <p>Connector type: RJ45, 8P8C type</p>  <p>Connector pin-outs:</p> <table border="1" data-bbox="1272 667 2004 962"> <thead> <tr> <th>Position</th> <th>Pin#</th> <th>Function</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>Tx+</td> <td></td> </tr> <tr> <td>2</td> <td>2</td> <td>Tx-</td> <td></td> </tr> <tr> <td>3</td> <td>3</td> <td>Rx+</td> <td></td> </tr> <tr> <td>4</td> <td>4</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> <tr> <td>5</td> <td>5</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> <tr> <td>6</td> <td>6</td> <td>Rx-</td> <td></td> </tr> <tr> <td>7</td> <td>7</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> <tr> <td>8</td> <td>8</td> <td>-</td> <td>Balance "Bob-T" termination</td> </tr> </tbody> </table> <p>Cable: Cat5 or 5e cable as defined by TIA/EIA-568-B.</p>	Position	Pin#	Function	Comments	1	1	Tx+		2	2	Tx-		3	3	Rx+		4	4	-	Balance "Bob-T" termination	5	5	-	Balance "Bob-T" termination	6	6	Rx-		7	7	-	Balance "Bob-T" termination	8	8	-	Balance "Bob-T" termination
Position	Pin#	Function	Comments																																																																							
1	1	Tx+																																																																								
2	2	Tx-																																																																								
3	3	Rx+																																																																								
4	4	-	Balance "Bob-T" termination																																																																							
5	5	-	Balance "Bob-T" termination																																																																							
6	6	Rx-																																																																								
7	7	-	Balance "Bob-T" termination																																																																							
8	8	-	Balance "Bob-T" termination																																																																							
Position	Pin#	Function	Comments																																																																							
1	1	Tx+																																																																								
2	2	Tx-																																																																								
3	3	Rx+																																																																								
4	4	-	Balance "Bob-T" termination																																																																							
5	5	-	Balance "Bob-T" termination																																																																							
6	6	Rx-																																																																								
7	7	-	Balance "Bob-T" termination																																																																							
8	8	-	Balance "Bob-T" termination																																																																							
Networking	<p>LAN 1: DHCP client</p> <p>LAN 2: 192.168.101.1</p> <p>LAN 3: 192.168.102.1</p> <p>LAN 4: 192.168.103.1</p>	<p>LAN 1: DHCP client</p> <p>LAN 2: 192.168.101.1 (when installed)</p> <p>USB 0 (OTG): 192.168.102.1</p> <p>VLAN1.103: 192.168.103.1</p> <p>WLAN: 192.168.104.1 (Default: Access point mode)</p>																																																																								
Console port	COM port (UART), RJ45	LAN (Ethernet) USB2.0 (OTG)																																																																								
Other IO	USB0 & USB1, Com port (UART), On/Off button	USB1, HDMI port, WiFi antenna connector, On/Off button.																																																																								

Power	Supplied with 12V, 5A or 2.5A AC/DC supply for Chassis GND, 12V DC input	Supplied with 12V,2.5A AC/DC supply for GND, 12V DC input
Quick start install guide	<ol style="list-style-type: none"> 1. Connect the power adapter to the server and to mains supply and turn the server on. 2. Connect the Com.X5 server to a LAN switch using LAN1 port (Eth0) and a Cat5e cable. 3. Connect FXS ports to telephones, fax machines etc. using standard Cat3, twisted pair cables. 4. Connect FXO ports to telco lines, PBXs, etc. using standard Cat3, twisted pair cables. 5. Connect BRI ports to telco NT equipment or PBXs using standard S/T RJ-45 cables. 	<ol style="list-style-type: none"> 1. Connect the power adapter to the server and to mains supply and turn the server on. 2. Connect the Wanderbox duo to the LAN switch using the Ethernet port and a standard Ethernet cable. 3. Connect FXS ports to telephones, fax machines etc. using standard RJ-11 cables. 4. Connect FXO ports to telco lines, PBX's, etc. using standard RJ-11 cables. 5. No BRI ports available
Software support	Unit ships with standard Comma packages: <ul style="list-style-type: none"> • Com.X GUI 1.4.59 • Com.X Base 1.4.59 	Unit ships with standard Comma packages <ul style="list-style-type: none"> • Com.X GUI 1.4.59 • MX Base 1.4.59
Accessing GUI	Default access details for Com.X5 is: user: comma password: farsouth The Com.X5 server GUI can be accessed using the URL: <ol style="list-style-type: none"> 1. <a href="http://<ip>">http://<ip>, where <ip> is the IP addressed assigned to the 	Default access details for the Wanderbox duo is: user: comma password: farsouth The Wanderbox server GUI can be accessed using the URL:

	<p>unit via DHCP, or one of the statically configured IP's.</p> <ol style="list-style-type: none">2. All administrative tasks elaborated on below can be performed from the GUI.3. Please refer to the Administrator's guide for more detail.	<ol style="list-style-type: none">1. <a href="http://<ip>">http://<ip> - where <ip> is the IP address assigned to the unit via DHCP, or one of the statically configured IP's.2. All administrative tasks elaborated on below can be performed from the GUI.3. Please refer to the Administrator's guide for more detail.
--	--	---