

EXTERNAL AC/DC ADAPTER

Voltage and Current

Input: 100-240 Vac 50/60 Hz 1.5 A
Output: 16.5 Vdc 3.63 A

USE AND STORAGE CONDITIONS

OPERATING TEMPERATURE

-5°C + +45 °C

RELATIVE OPERATING HUMIDITY

10% + 93 % (without condensation)

STORAGE TEMPERATURE

-40 + +70 °C

REFERENCE REGULATIONS (CE MARK AND RELIABILITY TESTS)

STORAGE:

EN 60068-2-1 Test Ab (IEC 60068-2-1)
IEC 60068-2-2 Test Bb (IEC 60068-2-2)
IEC 60068-2-14 Test Nb
IEC 60068-2-18
IEC 60068-2-27 Test Ea
IEC 60068-2-30 Test Db - Variant 1
IEC 60068-2-64 Test Fh (CEI 50-9/9)
ETSI EN 300 019-2-1 T 1,3

TRANSPORTATION

EN 60068-2-1 Test Ab (IEC 60068-2-1)
IEC 60068-2-2 Test Bb (IEC 60068-2-2)
IEC 60068-2-14 Test Nb
IEC 60068-2-18
IEC 60068-2-27 Test Ea
IEC 60068-2-30 Test Db - Variant 1
IEC 60068-2-31 Test Ec - Method 1
IEC 60068-2-64 Test Fh (CEI 50-9/9)
ETSI EN 300 019-2-2 T 2,3

OPERATING CONDITIONS

EN 60068-2-1 Test Ab (IEC 60068-2-1)
IEC 60068-2-2 Test Bb (IEC 60068-2-2)
IEC 60068-2-14 Test Nb
IEC 60068-2-27 Test Ea
IEC 60068-2-30 Test Db - Variant 1
IEC 60068-2-31 Test Ec
IEC 60068-2-64 Test Fh (CEI 50-9/9)
IEC 60068-2-78 Test Cab
ETSI EN 300 019-2-3 T 3,2

EMC

EN 55022
EN 55024
EN 61000-3-2
EN 61000-3-3
ETSI EN 301 489-1 / 17
ITU-T-K.21
ITU-T-K.44
EN 60950-1 (IEC 60950-1)
EN 300 328

PROTECTIONS

**SAFETY
RADIO**

CE MARK

A TLC S.r.l. hereby declares that this product complies with requirements of the R&TTE Directive 1999/5/EC, ecodesign requirement Directive 2009/125/EC and RoHS Directive 2011/65/EU.

The declaration of conformity may be obtained from

A TLC S.r.l.
Via 1° Maggio, 26
60131 Ancona - Italia
Tel. +39071 250651
Fax +39071 2506518
Email: info@aethra.com - www.aethra.com



RESTRICTIONS FOR USE IN THE 2.4 GHz BAND

This device may be operated indoors or outdoors in all countries of the European Community using the 2.4 GHz band: channels 1-13 except where noted below.
In Italy the end-user must apply for a license from the National Spectrum Authority to operate this device outdoors.
In France outdoor operation is only permitted using the 2.400-2.454 GHz band: channels 1-7.



SV6044E Series

Quick Installation Guide

SV6044E Series installation is simple and fast. To help you with the installation, please follow the next steps.

1. Packaging

It is composed of :

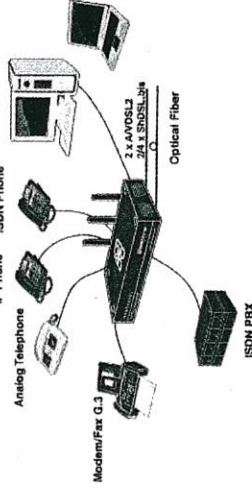
- 1 x SV6044E Series CPE. The available models are listed on page 2. The product name is referred on the packaging label and on the CPE bottom.
- 1 x AC/DC Switching Power Supply
- 1 x RJ45-Sub-D 9 poles console cable
- 2/3/4/6 x RJ11-RJ11 cable 2 m, it depends on the model
- 1 x Wall mounting kit
- 1 x Rack mounting kit
- 2 x Antennas
- 2 x Quick guides

2. Connecting the power supply

Connect the power supply to the "Power" socket and to a compatible electrical outlet

3. Connecting the PC's, WIFI, IP Phones, Analog Telephones and Analog PBX , G.3 Fax or Modem, ISDN PBX and ISDN Telephones, Hard Disks and Printers

Connect the LAN cable to one of the 4-port Giga Ethernet Switch with the description "Eth0".
Connect the SIP IP phones to the switch. Connect the analog devices (eg. telephones, fax, modem, analog PBXs) to the FXS ports. Connect the ISDN devices (eg. telephones, ISDN PBXs) to the BRI ports. Connect the storage devices such as hard disks and local printers to the USB ports.
All products of the SV6044E Series are provided with WiFi connectivity.



4. 2-pair AVDSL2 WAN connectivity or SFP optical fiber

Connect the ports AVDSL2 marked with "LINE1, LINE2" to the service provider telephone network using the provided cables. The optical fiber connectivity is also possible through the SFP port with the help of SFP transceiver modules provided by third parties. In this situation, Eth1 the WAN port, remains disabled.

5. Giga Ethernet WAN connectivity – Data Backup Service

You can use "Eth1", the Giga Ethernet WAN port as uplink, and connect to a media converter in optical fiber scenarios. The "Eth1" port can also be used to provide data backup service in case of failure of the main WAN lines. "Eth1" port can also be used for local and remote CPE management.

6. 3G/4G Connectivity – Voice and Data Backup Service

In case of failure of the main WAN lines, the voice and data backup service is guaranteed through the integrated 3G/4G module (factory option); the module allows to make 3G/4G connections between the CPE and the service provider mobile network. The 3G/4G connectivity can be used as a primary WAN.

7. 2/4-pair ShDSL.bis WAN connectivity

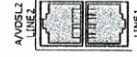
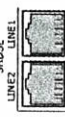
Connect the ShDSL ports marked with "LINE1, LINE2, LINE3 and LINE4" to the service provider telephone network using the provided cables.

8. V/X WAN connectivity

Connect the V/X port to the modem delivered by the service provider using the "custom" cable.

9. "P1" module - ISDN Primary Rate Interface

The "P1" module provides the user with an ISDN interface to carry up to 30 "voice" channels simultaneously.



Technical Specification

Product SV6044E Series

SV6044E	WAN	LAN	IPv6	WiFi	FXS/BRI/PRI	FXO	G.729 ch.	3G/4G	USB
SV6044EV2W	2x AVDSL2 ³ GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044EV2W	VX GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044ES2W	2x SHDSL ^{6a} GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044EV23W	2x AVDSL2 ³ VX GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044EV232W	2x AVDSL2 ³ 2x SHDSL ^{6a} GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044EV234W	2x AVDSL2 ³ 4x SHDSL ^{6a} GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044EV2W	2x AVDSL2 ³ 1x AVDSL2 ² GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 0 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB)	1	8*	✓	2
SV6044EV2P1W	2x AVDSL2 ³ GbE SFP	4 x GbE	✓	802.11b/g/n, 2.4/5 GHz, WEP WPA1/2, WPS (5GHz factory option)	4 / 4 / 1 (BRI VOICE: 4 NT/TE) (BRI DATA: 2 TB) (PRI: NT/TE)	1	8 ^b (FXS / BRI) 30 (PRI)	✓	2

NOTES

- * ATM and EFM support
- ² separate AVDSL2 WAN for backup
- ³ VDSL2 full vectoring and bonding support up to profile 30a
- ⁴ 12 channels with additional license

ENVIRONMENTAL SAFETY

This equipment must not be treated as household waste and should instead be handed over to the applicable collection point for the recycling of electrical and electronic equipment. With the correct disposal of this equipment, you will help prevent any potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate handling of this product. For more detailed information about recycling this product, please contact your local city office, your household waste disposal company or the dealer where you purchased this product.



Safety Rules



DEVICE IN CLASS I

Always connect to a grounded socket.



CAUTION: for the operator's safety, only use the mains adapter that has been provided with the device.



CAUTION: for the maintenance technician's safety, first disconnect the telephone cable and then the mains plug.



CAUTION: the mains cable (or the direct plug-in mains adapter) is used as a disconnecting device, use therefore an easily accessible outlet located near the device for the power supply connection. Never remove the mains plug while the device is connected.



CAUTION: connect the ISDN port to an internal ISDN circuit only. It is absolutely forbidden to connect the ISDN port to an outdoor telecommunication line.



CAUTION: connect the ETHERNET port to an internal ETHERNET circuit only. It is absolutely forbidden to connect the ETHERNET port to an outdoor telecommunication line.



CAUTION: connect the cable of the telephone interface to the device connector and then to the outdoor telecommunication line to avoid accidental contact with live parts of the TNV circuits.



CAUTION: never install the system during a lightning storm.



CAUTION: the change from cold to hot environments can cause condensate to form inside the device. To avoid malfunctioning, wait at least 2 hours before connecting the device to the main power supply.



CAUTION: in case of fire, do NOT use water to extinguish it.



CAUTION: RISK OF ELECTRIC SHOCK

The power supply used by this device involves lethal voltage levels



CAUTION: when making repairs, disconnect the device from the power supply.



CAUTION: do not touch the internal parts of the device (and/or of the mains adapter).



CAUTION: if objects or liquids leak into the device, disconnect the power supply cable IMMEDIATELY. Have it checked by an authorized technician before using the device again.



CAUTION: contact an authorized technician/consultant for assistance.

Warnings for installation, use and Cleaning

Many of the components used in this device are sensitive to electrostatic charge.

When handling the connection cables, disconnect the power supply and avoid direct contact with the connector terminals.

When handling electronic components, touch a grounded surface to eliminate any static electricity. If possible, wear a grounding arm band.

Failure to comply with these warnings could cause permanent damage to this device.

To clean the device use a dry soft cloth (or with a little bit of gentle detergent). Never use solvents, such as alcohol or gasoline, to avoid damaging the finish.

WIRELESS LAN

System makes use of a wireless receiver / transmitter. While installing and operating this system, the radio frequency exposure limit may be exceeded at distances close to the system. Therefore, the user must maintain a minimum distances of 20 cm from the device at all time.

WIRELESS LAN

System makes use of a wireless receiver / transmitter, using DSSS (Direct Sequence Spread Spectrum) or OFDM (Orthogonal Frequency Division Modulation) radio technology. Therefore the system was designed to work in cooperation with any other wireless product using this technology complying to IEEE 802.11b/g/n standard.

Warning for Rack Mounted Installation



1. **Tmrc.** – The manufacturer's maximum recommended ambient temperature is 45 °C.
2. **Elevated Operating Ambient Temperature** – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).
3. **Reduce Air Flow** – Installation of equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
4. **Mechanical Loading** – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
5. **Circuit Overloading** – Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
6. **Reliable earthing** – Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connection other than direct connection to the branch circuit (e.g., use of power strips)..