

mLAN EXPANSION BOARD  
**mLAN16E2**  
 Owner's Manual



EN

Thank you for purchasing the Yamaha mLAN16E2.

The mLAN16E2 is an expansion board that is based on mLAN technology. The mLAN16E2 adds two mLAN connectors to an mLAN16E2-compatible device, such as the Yamaha MOTIF XS music production synthesizer. By connecting to a computer in a peer-to-peer connection via an IEEE1394 cable, you can transfer audio data for all channels and MIDI data for all ports simultaneously between the mLAN16E2-equipped device and the computer.

In order to take full advantage of the mLAN16E2's functionality, please read this manual carefully. After reading this manual, please keep it available for future reference.

- The illustrations and LCD screens shown in this Owner's Manual are for instructional purposes only and may appear somewhat different from those on your device.
- MIDI is a registered trademark of the Association of Musical Electronics Industry (AMEI).
- mLAN is a trademark of Yamaha Corporation.
- Company names and product names in this Owner's Manual are the trademarks or registered trademarks of their respective owners.

### Safety Precautions

**!** Before installing your mLAN16E2 expansion board, please read "Precautions" and "Installing Optional Hardware" sections in your digital keyboard owner's manual.

Yamaha is not held responsible for damage caused by improper use of or modifications to the device or for data that is lost or destroyed.

### Installing the mLAN16E2

**!** For information on installing the mLAN16E2, refer to the section in the owner's manual for your mLAN16E2-compatible device on "Installing Optional Hardware."

Before using the mLAN16E2, download the proper AI Driver from our website:  
<http://www.yamahasyth.com/download/>

- NOTE**
- Information on system requirements is also available at the above web site.
  - The AI Driver may be revised and updated without prior notice. Make sure to check and download the latest version from the above site.

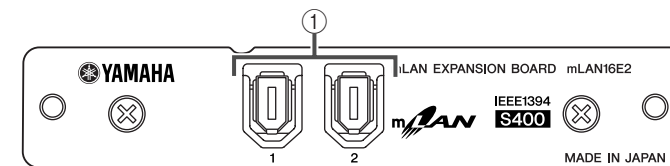
### Package Contents

- mLAN16E2 unit
- Owner's Manual (this document)

### Names and Functions

For details and the latest information on mLAN16E2, refer to the owner's manual for your mLAN16E2-compatible device and the following URL:

<http://www.yamahasyth.com/>

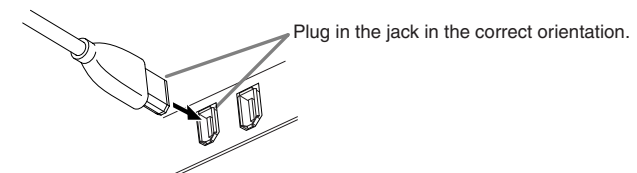


#### ① mLAN (IEEE1394) jacks

These 6-pin IEEE1394 standard jacks enable you to connect IEEE1394-compatible (FireWire/i.LINK) computers.

If the connecting device features a 6-pin IEEE1394 jack, use a standard 6-pin to 6-pin IEEE1394 cable. If it features a 4-pin IEEE1394 jack, use a standard 6-pin to 4-pin IEEE1394 cable. Do not connect the cables in a loop.

**!** Be sure to connect the IEEE1394 (mLAN) cable plug to the mLAN jack in the correct orientation.



**NOTE** Yamaha recommends that you use an IEEE1394 cable with a length of 4.5 meters or less.

### Specifications

<b>Functions</b>	<b>Data Rate:</b>	S400
	<b>Audio Inputs and Outputs:</b>	6 Ins, 16 Outs
	<b>Sampling rate:</b>	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
	<b>MIDI connectors:</b>	3 Ins, 3 Outs
<b>Jacks</b>	<b>To IEEE1394:</b>	6-pin x 2
	<b>To Mother:</b>	100P
<b>Dimensions/Weight</b>	142(W) x 123.3(D) x 22.7(H) mm / 108g	

Specifications and appearance subject to change without notice.

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

## NORTH AMERICA

### CANADA

**Yamaha Canada Music Ltd.**  
135 Milner Avenue, Scarborough, Ontario,  
M1S 3R1, Canada  
Tel: 416-298-1311

### U.S.A.

**Yamaha Corporation of America**  
6600 Orangethorpe Ave., Buena Park, Calif.  
90620, U.S.A.  
Tel: 714-522-9011

## CENTRAL & SOUTH AMERICA

### MEXICO

**Yamaha de México S.A. de C.V.**  
Calz. Javier Rojo Gómez #1149,  
Col. Guadalupe del Moral  
C.P. 09300, México, D.F., México  
Tel: 55-5804-0600

### BRAZIL

**Yamaha Musical do Brasil Ltda.**  
Rua Joaquim Floriano, 913 - 4º andar, Itaim  
Bibi, CEP 04534-013 Sao Paulo, SP. BRAZIL  
Tel: 011-3704-1377

### ARGENTINA

**Yamaha Music Latin America, S.A.**  
**Sucursal de Argentina**  
Viamonte 1145 Piso 2-B 1053,  
Buenos Aires, Argentina  
Tel: 1-4371-7021

### PANAMA AND OTHER LATIN AMERICAN COUNTRIES/ CARIBBEAN COUNTRIES

**Yamaha Music Latin America, S.A.**  
Torre Banco General, Piso 7, Urbanización Marbella,  
Calle 47 y Aquilino de la Guardia,  
Ciudad de Panamá, Panamá  
Tel: +507-269-5311

## EUROPE

### THE UNITED KINGDOM

**Yamaha-Kemble Music (U.K.) Ltd.**  
Sherbourne Drive, Tilbrook, Milton Keynes,  
MK7 8BL, England  
Tel: 01908-366700

### IRELAND

**Danfay Ltd.**  
61D, Sallynoggin Road, Dun Laoghaire, Co. Dublin  
Tel: 01-2859177

### GERMANY

**Yamaha Music Central Europe GmbH**  
Siemenstraße 22-34, 25462 Rellingen, Germany  
Tel: 04101-3030

### SWITZERLAND/LIECHTENSTEIN

**Yamaha Music Central Europe GmbH,**  
**Branch Switzerland**  
Seefeldstrasse 94, 8008 Zürich, Switzerland  
Tel: 01-383 3990

### AUSTRIA

**Yamaha Music Central Europe GmbH,**  
**Branch Austria**  
Schleiergasse 20, A-1100 Wien, Austria  
Tel: 01-60203900

### CZECH REPUBLIC/SLOVAKIA/ HUNGARY/SLOVENIA

**Yamaha Music Central Europe GmbH,**  
**Branch Austria, CEE Department**  
Schleiergasse 20, A-1100 Wien, Austria  
Tel: 01-602039025

### POLAND

**Yamaha Music Central Europe GmbH**  
**Sp.z. o.o. Oddzial w Polsce**  
ul. 17 Stycznia 56, PL-02-146 Warszawa, Poland  
Tel: 022-868-07-57

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

关于各产品的详细信息, 请向就近的 YAMAHA 代理商或下列经销商询问。

## ASIA

### THE PEOPLE'S REPUBLIC OF CHINA

**Yamaha Music & Electronics (China) Co., Ltd.**  
25/F., United Plaza, 1468 Nanjing Road (West),  
Jingan, Shanghai, China  
Tel: 021-6247-2211

### HONG KONG

**Tom Lee Music Co., Ltd.**  
11/F., Silvercord Tower 1, 30 Canton Road,  
Tsimshatsui, Kowloon, Hong Kong  
Tel: 2737-7688

### INDONESIA

**PT. Yamaha Music Indonesia (Distributor)**  
**PT. Nusanik**  
Gedung Yamaha Music Center, Jalan Jend.  
Gatot Subroto Kav. 4, Jakarta 12930, Indonesia  
Tel: 21-520-2577

### KOREA

**Yamaha Music Korea Ltd.**  
8F, 9F, Dongsung Bldg. 158-9 Samsung-Dong,  
Kangnam-Gu, Seoul, Korea  
Tel: 080-004-0022

### MALAYSIA

**Yamaha Music Malaysia, Sdn., Bhd.**  
Lot 8, Jalan Perbandaran, 47301 Kelana Jaya,  
Petaling Jaya, Selangor, Malaysia  
Tel: 3-78030900

### PHILIPPINES

**Yupango Music Corporation**  
339 Gil J. Puyat Avenue, P.O. Box 885 MCPO,  
Makati, Metro Manila, Philippines  
Tel: 819-7551

### SINGAPORE

**Yamaha Music Asia Pte., Ltd.**  
#03-11 A-Z Building  
140 Paya Lebor Road, Singapore 409015  
Tel: 747-4374

### TAIWAN

**Yamaha KHS Music Co., Ltd.**  
3F, #6, Sec.2, Nan Jing E. Rd. Taipei.  
Taiwan 104, R.O.C.  
Tel: 02-2511-8688

### THAILAND

**Siam Music Yamaha Co., Ltd.**  
891/1 Siam Motors Building, 15-16 floor  
Rama 1 road, Wangmai, Pathumwan  
Bangkok 10330, Thailand  
Tel: 02-215-2626

### OTHER ASIAN COUNTRIES

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650  
Tel: +81-53-460-2317

## OCEANIA

### AUSTRALIA

**Yamaha Music Australia Pty. Ltd.**  
Level 1, 99 Queensbridge Street, Southbank,  
Victoria 3006, Australia  
Tel: 3-9693-5111

### NEW ZEALAND

**Music Houses of N.Z. Ltd.**  
146/148 Captain Springs Road, Te Papapa,  
Auckland, New Zealand  
Tel: 9-634-0099

### COUNTRIES AND TRUST TERRITORIES IN PACIFIC OCEAN

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650  
Tel: +81-53-460-2312

## FCC INFORMATION (U.S.A.)

### 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

### 2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

### 3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regula-

tions does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

\* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(class B)

## COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party : Yamaha Corporation of America

Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620

Telephone : 714-522-9011

Type of Equipment : mLAN Expansion Board

Model Name : mLAN16E2

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received including interference that may cause undesired operation.

See user manual instructions if interference to radio reception is suspected.

\* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(FCC DoC)

### SERIAL NUMBER LOCATION:

The serial number is located on the rear panel. Please record the model number, serial number, and date of purchase in the spaces provided below, and keep this manual as a permanent record of your purchase.

Model

Serial No.

Purchase Date

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

## CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

• This applies only to products distributed by Yamaha Canada Music Ltd. (class B)

• Ceci ne s'applique qu'aux produits distribués par Yamaha Canada Musique Ltée.

### HEAD OFFICE

**Yamaha Corporation, Pro Audio & Digital Musical Instrument Division**  
Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650  
Tel: +81-53-460-2445