

## LAN-XI Personal Computer Module WB-3620-W-001

LAN-XI Personal Computer Module WB-3620-W-001 is designed for use in LAN-XI Frame Type 3660-C or Type 3660-D, to build a more compact measurement system without the need for a traditional standalone PC. This enables you to build an 'all in one box' measurement solution.

When the PC is located inside a LAN-XI frame then a more environmentally suitable and flexible powering solution can be used, due to the cooling and power supply features of a LAN-XI frame.



### Uses and Features

#### Uses

- General recording and analysis solutions running B&K Tescia™ and BK Connect® software
- Stand-alone 'all in one box' solution built using LAN-XI Frames Types 3660-C and 3660-D

#### Features

- Interfaces seamlessly with LAN-XI Frames Types 3660-C and 3660-D
- Provides the following standard interfaces:
  - USB 2.0 connectors (×4)
  - VGA (Display)
  - Minijack (Audio output)
  - PoE LAN

### Detailed Description

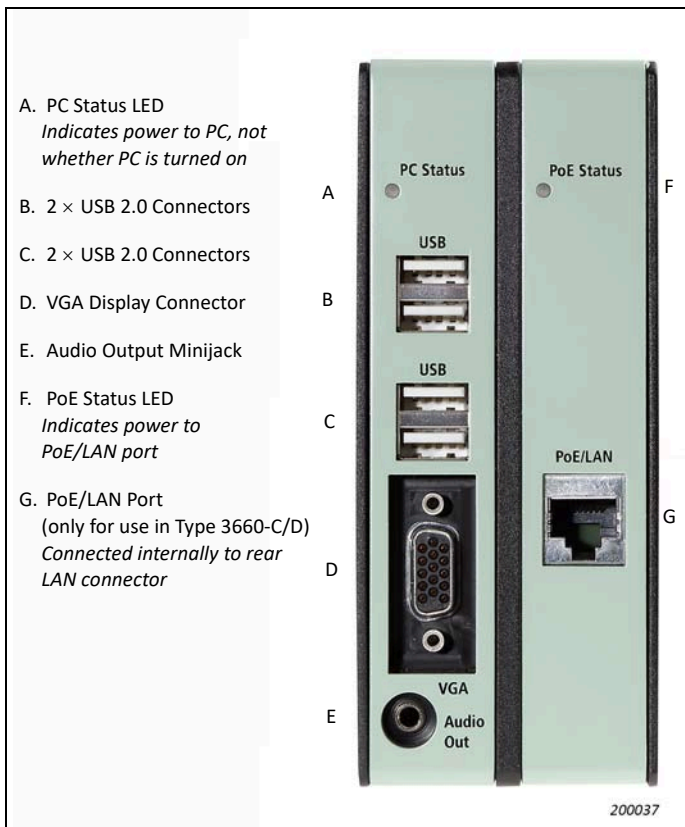
LAN-XI Personal Computer Module WB-3620-W-001 is a small PC built into two LAN-XI modules, see Fig. 1 and Fig. 2.

The PC can be used stand-alone or mounted in a LAN-XI frame (Type 3660-C or 3660-D) to provide a stand-alone data recording system.

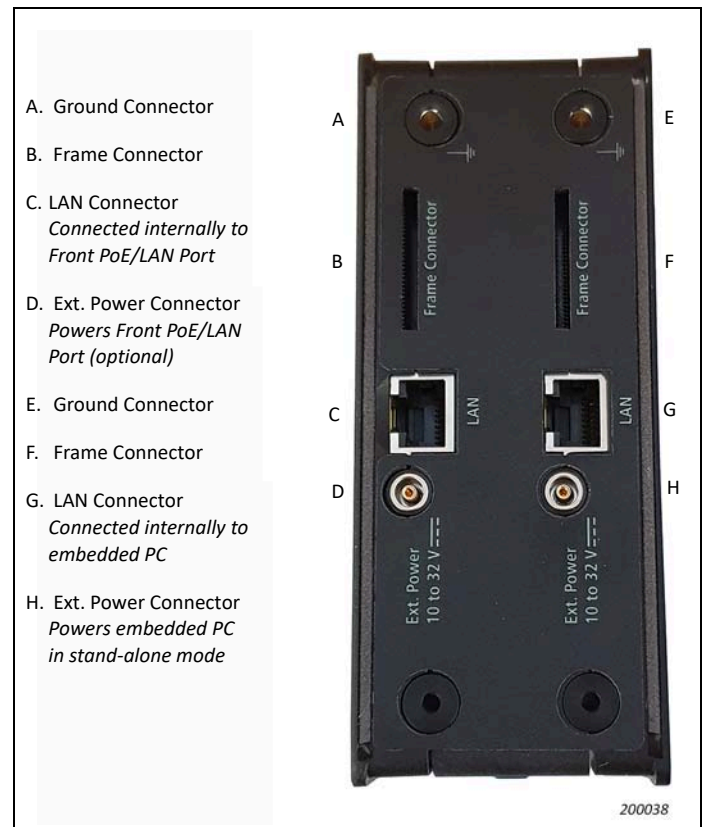
#### Please note:

LAN-XI Personal Computer Module WB-3620-W-001 will not work in a LAN-XI frame without a LAN-XI module in slot 1.

**Fig. 1**  
Front Connectors



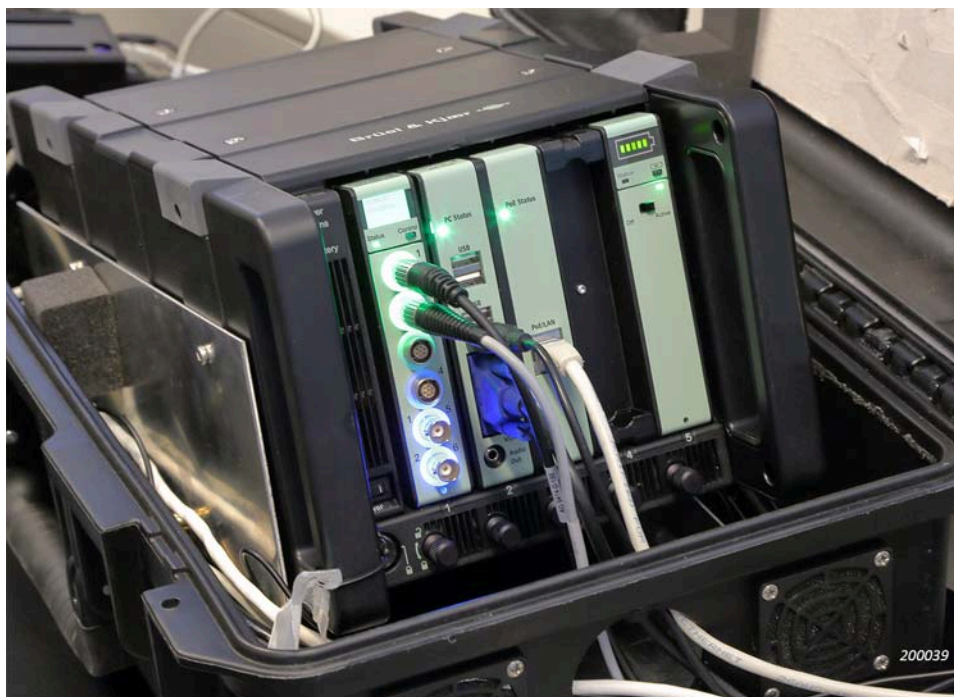
**Fig. 2**  
Rear Connectors



### Typical Usage Scenarios

LAN-XI Personal Computer Module can work as part of a self-contained, stand-alone measurement solution by fitting a Type 3660-C-100 frame with a LAN-XI module (for example, Type 3160-042), WB-3620-W-001, and one (or two) Type 2831 battery modules, see example configuration in Fig. 3.

**Fig. 3**  
WB-3620-W-001 in a LAN-XI C-frame with an acquisition module and battery module







This type of configuration can act as an independent measurement/recording station, and by connecting a network (such as long-range Wi-Fi) the computer may be monitored remotely while recording, without relying on the network to transmit all the recorded data.

An external, USB powered, touch display can be used for simple in-field monitoring and management of the system, and the LAN-XI frame allows the system to run from the LAN-XI battery module, AC mains or a DC supply (for example, a 12 V battery).

Typical system performances are given in Table 1.

**Table 1**  
*Typical system performance*

	<b>B&amp;K Tescia</b>	<b>BK Connect</b>
<b>Configuration Software</b>	<ul style="list-style-type: none"> <li>Type 8550: B&amp;K Tescia Repetitive Test Seat</li> <li>BZ-1020: LAN-XI Front-end Driver</li> </ul>	<ul style="list-style-type: none"> <li>Type 8402: BK Connect Time Data Recorder</li> <li>Type 8401-A: BK Connect Hardware Setup</li> </ul>
<b>Configuration Hardware</b>	<ul style="list-style-type: none"> <li>Type 3660-D: LAN-XI Frame with 54 channels at 51.2 kHz bandwidth or 108 channels at 25.6 kHz bandwidth</li> </ul>	
<b>Recommended Max. Activity</b>	<ul style="list-style-type: none"> <li>Recording to disk (all channels at full bandwidth)</li> <li>FFT analysis (400 lines full frequency span, 66% overlap)</li> </ul>	<ul style="list-style-type: none"> <li>Recording to disk (all channels at full bandwidth)</li> </ul> <p><b>Note:</b> Only FFT monitoring</p>

   	<p>The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EU directives. RCM mark indicates compliance with applicable ACMA technical standards – that is, for telecommunications, radio communications, EMC and EME in Australia.</p> <p>China RoHS mark indicates compliance with administrative measures on the control of pollution caused by electronic information products according to the Ministry of Information Industries of the People's Republic of China.</p> <p>WEEE mark indicates compliance with the EU WEEE Directive.</p>
<b>Safety</b>	EN/IEC 61010–1: 2010: Safety requirements for electrical equipment for measurement, control and laboratory use.
<b>EMC Emission</b>	WB-3620 stand-alone: EN 61000–6–3:2007: Generic emission standard for residential, commercial and light industry. 3660-C: EN/IEC 61000–6–4: Generic standards - Emission standard for industrial environments. EN 61326–1 (2013): Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements. FCC Rules, Part 15: Complies with the limits for a Class B digital device.
<b>EMC Immunity</b>	EN/IEC 61000–6–1: Generic standards - Immunity for residential, commercial and light industrial environments. EN/IEC 61000–6–2: Generic standards - Immunity for industrial environments. EN 61326–1 (2013): Electrical equipment for measurement, control and laboratory use - EMC requirements <b>NOTE:</b> The above is only guaranteed using accessories listed in this document
<b>Temperature</b>	EN 60068–2–1: Environmental testing - Part 2-1: Tests - Test A: Cold EN 60068–2–2: Environmental testing - Part 2-2: Tests - Test B: Dry heat Operating Temperature: –25 to +50 °C (–4 to 120 °F) Storage Temperature: –25 to +70 °C (–40 to 158 °F)
<b>Humidity</b>	IEC 60068–2–78: Damp Heat: 93% RH (non-condensing at 40 °C (104 °F))
<b>Mechanical (non-operating)</b>	EN 60068-2-6: Vibration: 0.15 mm, 20 m/s <sup>2</sup> , 10 – 500 Hz EN 60068-2-27: Shock: 500 m/s <sup>2</sup> EN 60068-2-29: Bump: 1000 bumps at 250 m/s <sup>2</sup>

WB-3620-W-001 in combination with Type 3660-C and 3660-D frame is not suitable for operation in residential areas, as this mode of operation only complies with class A requirements.

**EFFECT OF RADIATED AND CONDUCTED RF, MAGNETIC FIELD AND VIBRATION**

<b>Conducted RF:</b> 0.15 – 80 MHz, 80% AM 1 kHz, 10 V	When testing conducted immunity on the PoE output port, the 1 kHz modulation tone was audible in the frequency range 14–26 MHz in the auxiliary equipment attached to the audio output port to a degree where it was heard above the audio output from the computer. Neither safety nor correct operation of the equipment is compromised due to the interference.
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Specifications – LAN-XI Personal Computer Module WB-3620-W-001

**POWER REQUIREMENTS**

For powering the unit, Mains Adaptor ZG-0426 is available as an accessory. ZG-0426 has an IEC 60320 C7 mains inlet, accepting a mains supply in the range 90–264 VAC. WB-3620-W-001 can be powered by either the ZG-0426, or a LAN-XI C- or D-frame.

**POWER CONSUMPTION**

- **PC power consumption:** Max. 25 W
- **Maximum power consumption including accessories:** 60 W

**DIMENSIONS AND WEIGHT**

**Height:** 133 mm (5.24")  
**Width:** 52 mm (2.05")  
**Length:** 250 mm (9.84")  
**Weight:** 1.4 kg (3.09 lb)

**PoE INTERFACE**

Power over Ethernet (PoE) interface (IEEE 802.3af) is for connection to accessories like PoE cameras or wireless access points (WAP)

- **Max. PoE load:** 15.4 W
- **Source voltage:** 48 VDC

**EMBEDDED PC SPECIFICATIONS**

The PC inside WB-3620-W-001 is an AAEON PICO-BT01  
Main specs:

- Intel Atom® E3845 CPU (4 cores @ 1.91 GHz)
- 8 GB DDR3L SODIMM 1333 MHz
- 256 GB mSATA SSD
- Fanless design

Ordering Information

<b>WB-3620-W-001</b>	<b>Personal Computer for LAN-XI</b>	Type 3660-C-100	LAN-XI Frame with GPS, 5 slots
<b>RELATED PRODUCTS</b>		Type 3660-D-100	LAN-XI Frame with GPS, 11 slots
ZG-0426	Mains adaptor for LAN-XI modules and WB-3620	WQ-3741	256 GB external SSD USB storage drive, USB powered
WQ-3629	Touch display with VGA/HDMI input, USB powered	WU-0749-W-001	Outdoor trolley for LAN-XI C-frame (with tiltable inner fixture)
WQ-3630-W-001	VGA cable for use with GeChic On-lap monitors		

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