

# KSC Appliance

Flexible, dynamic and customizable



- **Quality** Development and production in Germany
- **Reliable** For professional 24/7 use
- **Scalable** Individual adaptation to your requirements
- **Intelligent** Simple operating layout management in KSC CORE
- **Flexible** Uninterruptible power supply with controlled shutdown function
- **Compatible** For all KSC CORE systems and other control systems

**KSC Appliance** benefits from BFE's many years of international experience in control systems for the broadcast and telecommunications market.

The **KSC Appliance** is a versatile solution that can be used both as a single computer in an OB-van and in studio applications, for example in a news or broadcasting control room. The cluster capability enables high operational reliability through redundancy. In the event of a failure, the affected computer can be removed from the cluster, replaced and seamlessly reintegrated - all during ongoing operation. The individual computers can be located at different sites as long as a fast and redundant network connection is guaranteed.

**The KSC Appliance consists of three main sections:**

#### Section 1:

This computer has an Intel i5-1145G7E CPU, a 64-bit server operating system, 32 GB RAM and a 480 GB SSD hard disk. It offers multiple USB 3.2 ports, DisplayPorts 1.4 for driving two 4K displays, five Gigabit LAN ports and an RS232 com port. Section 1 is always part of the **KSC Appliance**.

#### Section 2 (KSC Multi-IO part):

This is a redundant ARM-based control computer that is monitored by higher-level services. It controls a GPI-IO controller with 32 inputs/outputs and a device server with 6 serial RS232/422 interfaces. Section 2 is only available in the Multi-IO variant and can also be used as a stand-alone unit.

#### Section 3 (central supply unit):

This unit consists of a redundant primary power supply with two separate wide-range inputs and a processor-controlled uninterruptible secondary power supply (UPS). The UPS unit ensures that the server continues to run without interruption in the event of a power failure. If the primary supply fails for a longer period (> 2 minutes), the UPS unit terminates all processes on the computer and ensures a defined shutdown. After a further period of time without primary supply, the battery management of the UPS unit is also disconnected from the system to prevent deep discharge of the batteries. When the supply voltage is restored, the computer restarts automatically. The batteries used are lithium iron phosphate batteries (LiFePo4) which offer a high capacity and long service life and cannot burn or explode in the event of a fault.

Continuity and innovation are the core values of the KSC product line - the solution for control and management applications in the broadcast and telecommunications market.

## Key Features

- 2 RU/19", depth 390mm
- 64bit server operating system
- Intel i5-1145G7E CPU
- 32GB RAM
- 2 DisplayPort connections
- 5 Gigabit LAN connections
- 3 USB 3.2 connections
- 1 Serial port
- 32 in/outputs
- UPS unit

## Application Areas

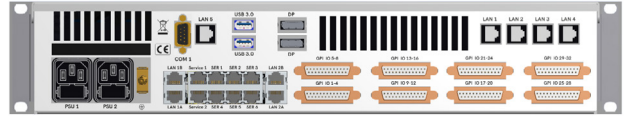
- Audio / video production environment
- OB vans
- Control rooms / transmission processing
- Network operations Centers (NOC)
- Control centers / industrial control rooms
- Situation centers

# KSC Appliance

Flexible, dynamic and customizable



## Technical Data



### Base Variant

- Article no. .... 490653
- CPU ..... 64Bit i5 1145G7E  
480GB SATA3 SSD hard disk
- RAM ..... 32 GB DDR 4 Memory
- Display output..... 2 DisplayPort connections DP1.4
- Network interface..... 5 Gigabit LAN ports
- USB connections ..... 3 USB 3.2 Gen2
- COM-port..... 1 serial port RS232
- UPS-unit..... 3x LiFePo4 batteries 3,5V, 1A

### Primary power supply

- (PSU1, PSU2) ..... 90 - 264 VAC primary 47-63Hz
- ..... 2x 12V, 5A secondary

### Multi-IO-Variant

- Article no. .... 490648
- Equipped like basic version plus**
- GPI-O inputs ..... 32 opto inputs, short-circuit proof,  
galvanically isolated
- GPI-O outputs ..... 32 outputs galvanically isolated
- Relay ..... solid state relay
- Switching capacity ..... 20 watt
- Switching current ..... 2 Ampere
- Connections ..... Each 25-pin connection can be individually  
loaded up to a maximum of 50mA and has  
a self-resetting fuse
- Operating range..... 3 - 28 volt operating range
- Input power consumption 3mA, max. 25mA per input
- Network interface..... 4x 10/100 Mbit/s
- Service interface ..... 2x RS232
- Serial interface ..... 6x RS232/RS422

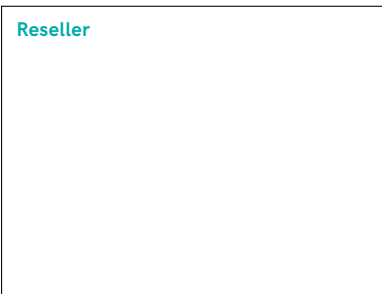
## Service

Extensive support for hardware and software through professional service level agreements. Please ask for our customer specific versions, tailored to your needs.

BFE Studio und Medien Systeme GmbH is an international manufacturer and system integrator for the professional media and broadcast solutions based in Germany.

For further information visit us at [www.bfe.tv](http://www.bfe.tv).

Errors and omissions excepted. All specifications are subject to change without notice.



BFE Studio und Medien Systeme GmbH  
An der Fahrt 1 · D-55124 Mainz  
Germany

Phone +49 6131 946 0  
Fax +49 6131 946 111

info@bfe.tv

BFE Studio und Medien Systeme GmbH  
Quellenstraße 2 · A-1100 Vienna  
Austria

Phone +43 1 60828 0  
Fax +43 1 60828 302

bfe.wien@bfe.at