AMULET HOTKEY

DXZC-C

PCoIP Zero Client

Datasheet

The Amulet Hotkey DXZC-C is a Tera2 PCoIP® zero client with integral smart card reader. Built to our usual high standards, the DXZC-C supports two video heads in a compact tough case.

The DXZC-C zero client decodes encrypted pixel data sent from a remote PCoIP host and manages local (desktop) USB devices. The DXZC-C provides full duplex stereo audio, dual DisplayPort video outputs and three USB 2.0 sockets. It also has a very low noise and heat signature. A single switch controls power and access to the on-screen menu. All communications use AES-256 encryption.

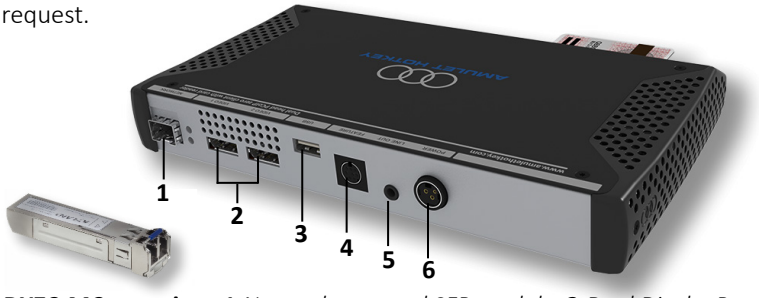
The integral card reader supports CAC and SIPRNet tokens, ISO 7816 and EMV 2000 Level 1, and is compatible with 5V, 3V and 1.8V smart cards.

Where secure, uncompromised performance and pristine graphics for remote desktop applications are paramount, the DXZC-C provides the best and most dependable solution available.

UK Government Security Certification

The DXZC zero client is certified as secure by CESG, the National Technical Authority for Information Assurance within the UK. The CESG assists Government Departments with cyber security and have approved the DXZC-AMC for use at the 'OFFICIAL' level within Government and public sector organizations**.**

TEMPEST versions of this product, approved to NATO SDIP-27 Level A and Level B by our TEMPEST-certified CESG and NATO partners, are available on special request.



DXZC-MC rear view. 1 *Network port and SFP module.* **2** *Dual DisplayPort connectors.* **3** *USB port.* **4** *Feature connector socket* **5** *Line level audio output.* **6** *DC power inlet.*

www.amulethotkey.com

Key features

- Compact and highly secure PCoIP zero client with integrated smartcard reader
- Supports high-resolution displays with dual video up to 1920x1200 or single video up to 3440x1440
- Exceptional performance including real-time video and demanding 3D graphics
- Connect to virtual desktops, cloud managed desktops or for the most demanding graphics, connect to remote physical or virtual workstations
- Easy to configure and manage

Smart card reader

- Supports CAC, PIV cards and SIPRNet tokens
- Complies with ISO 7816 and EMV 2000 Level 1
- Compatible with 5V, 3V and 1.8V smart cards

Network connection

- 10/100/1000 network connection and options for SFP modules for copper or fiber optic cabling
- Remote connections can be local, across country, or continent-to-continent

Security

- Only display pixels are sent to the client so no sensitive data ever reaches the client
- Zero Clients have no X86-processor, no Windows or Linux client OS, no client GPU and no local storage which eliminates exploits common with other client endpoints
- Extensive security features including support for 256-bit AES encryption, NSA Suite-B ciphers, smart card, proximity card, SIPR tokens and much more

Certified Product

Foundation
RDT5722298

EMEA Sales
+44 (0)20 7960 2400
emeasales@amulethotkey.com

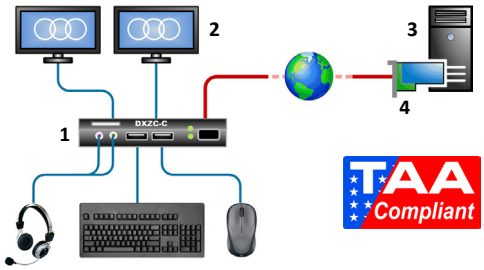
N America & Canada Sales
+1 (212) 269 9300
ussales@amulethotkey.com

APJ Sales
+61 409 930 884
apsales@amulethotkey.com

LATAM Sales
latamsales@amulethotkey.com

Defence and Security
security@amulethotkey.com

Technical Support
eurosupport@amulethotkey.com
ussupport@amulethotkey.com
latamsupport@amulethotkey.com
apsupport@amulethotkey.com



Example PCoIP system with DXZC-C. 1 *DXZC-C.* **2** *Dual monitors.* **3** *Remote computer.* **4** *PCoIP host*

DXZC models: The DXZC-C is available in three versions. The standard DXZC-C has an RJ45 network port. The DXZC-MC and DXZC-AMC have a network port that accepts a copper or fiber SFP module.

In partnership with...

Head Office: Amulet Hotkey Ltd, Cavalier Road, Heathfield Industrial Estate, Newton Abbot, Devon TQ12 6TQ, UK +44 (0)1626 837900

©2019 Amulet Hotkey Ltd (AHK). All rights reserved. Contents must not be reproduced without prior permission. Information in this document is subject to change. AHK may have patents, patent applications, trademarks, copyrights or other intellectual property rights covering subject matter in this document. AHK is a registered trademark of Amulet Hotkey Ltd. Other product names and company names listed within this document may be trademarks of their respective owners.

Datasheet DS-DXZC-C001 v2.2 January 2019

www.amulethotkey.com

About PCoIP systems

PcoIP systems are fully secure and build to a lossless image, making them ideal for the most demanding of applications. Amulet Hotkey PCoIP zero clients are desktop devices that connect to a remotely located 'host' using the PCoIP protocol. They support any user type from mainstream office desktops for task workers to the most demanding 3D performance workstations. They must be paired with a 'PCoIP host' device located in or near the remote computer. Connection options include virtual desktops such as VMware Horizon, Cloud Managed Desktops such as Amazon Web Services Workspaces, or remote physical or virtual workstations for demanding users.

PCoIP hosts can be implemented in hardware (as shown above) or in software, using VMware Horizon or Amazon Workspaces. The PCoIP host encodes USB, audio and video from the host, compresses and encrypts the data for transmission across standard IP networks to the zero client.

The zero client then decrypts and decompresses the data, and delivers it to the desktop monitors and peripherals (such as keyboard, mouse, speakers or headset). The zero client also passes user-generated USB and audio data to the PCoIP host. The result for the user is that the desktop looks and feels like it is at their desk Because zero clients simply decode pixels to display images, they are simpler and more secure than a traditional PC or thin clients.

Specifications	
Processor	Teradici Tera2321 PCoIP processor
Memory	512MB DDR3 RAM
Video output	2 x DisplayPort connectors (dual mode)
Display support (dual)	Two monitors up to 1920 x 1200 maximum @ 60 Hz
Display support (single)	One 2560 x 1600 maximum with AHK KVM Extender Host @ 60 Hz, or; One 3440 x 1440 maximum with VMware Horizon virtual workstations @ 60 Hz
Audio connections	Stereo headset/headphones, stereo line out, stereo mic. All 3.5mm jacks
USB connections	3 x USB 2.0
Network connections	**DXZC-C:** Single RJ45: 10/100/1000BaseT **DXZC-MC, DXZC-AMC:** Single SFP module: Fiber or copper; 1 Gbit/s or 1 Mbit/s. Available modules are listed in the *SFP Modules Datasheet*
Cooling	Passive
Case	Robust enclosure
Power consumption	**DXZC-C** Typically less than 9W excluding USB peripherals **DXZC-MC/DXZC-AMC** Typically less than 11W excluding USB peripherals
Temperature range	Operating: 15° to 40° C (59° to 104° F) Storage:-10° to 60° C (14° to 140° F)
Size *(H x W x D)*	37 x 228 x 128 mm (1.5 x 9.0 X 5.1"). Weight: 0.8 kg (1.8 lbs)
Security	Strong encryption and authentication including 256-bit AES and NSA Suite-B ciphers. 2 factor authentication options including CAC/PIV cards, smart cards, prox-cards, e-tokens, SIPR tokens. IEEE 802.1X network authentication. Unique USB lockdown control. Kensington Lock slot
Compliance	TAA compliant. Conforms to relevant parts of EN55022, EN55024, CE and FCC Part 15. Contact Amulet Hotkey Sales for information about TEMPEST versions of the DXZC-C and DXZC-MC (approved to NATO SDIP-27 Level A and Level B by our TEMPEST-certified CESG and NATO partners)
Intgegral card reader	
Security	SIPRNet hardware token and CAC smart card support
Standards	ISO 7816, EMV 2000 Level 1, GSA FIPS 201 approved product list
Protocols	T=0, T=1; 2-wire: SLE 4432/42 (S=10); 3-wire: SLE 4418/28 (S=9); I^2C (S=8)
Card types	Support for 5V, 3V and 1.8V smart cards; ISO 7816 Class A, B and C
Smart card detection	Movement detection with auto power-off; automatic detection of smart card type; short circuit and thermal protection
Supprted APIs	PC/SC driver (ready for 2.01); CT-API (on top of PC/SC); synchronous-API (on top of PC/SC); OCF (on top of PC/SC)
Durability	100,000 insertions

CESG Certification: The UK Government has certified the DXZC-AMC running firmware 4.8.0 (or newer) as secure for Remote Desktop Security Characteristic version 1.0 at Foundation Grade. CESG certificate number: RDT5722298.