

GRAVADOR IP DE 16 CANAIS

- » Até 16 canais IP
- » 8 portas PoE
- » Compressão de vídeo H.265+ e H.265
- » Saídas de vídeo VGA e HDMI
- » Visualização em 4K
- » Suporta câmeras IP com resolução até 4K
- » Compatibilidade com protocolo Onvif
- » Suporte a recebimento de eventos de Inteligência de câmeras IP
- »Suporta 1 HD SATA de alta capacidade



Sistema	
Processador principal	ARM Cortex A7 Quad-core Processor
Sistema operacional	Linux® embarcado

Áudio e Vídeo	
Entradas de câmera IP	16 canais
Entrada de áudio	1 canal, RCA
Saída de áudio	1 canal, RCA
Áudio Bidirecional	Sim
Codec de Áudio	AAC,G711u, G711a, ADPCM_DVI4
Áudio Bit Rate	64 kbps



Visualização do Dispositivo		
Saída de vídeo (monitores)		1 HDMI / 1 VGA
Resoluções de saída (em pixels)	HDMI	3840 × 2160/30Hz 1920 × 1080P/60Hz 1280 × 1024/60Hz 1280 × 720/60Hz 1024 × 768/60Hz
	VGA	1920 × 1080P/60Hz 1280 × 1024P/60Hz 1280 × 720/60Hz 1024 × 768/60Hz
Divisão do mosaico da tela		16CHxD1 / 9CHxD1 / 8CHxD1 / 4CHxD1 / 1CHx1080P / 1CHx3MP / 1CHx4MP / 1CHx5MP / 1CHx4k
Informações em tela		Nome do canal, Hora, Perda de vídeo, Alarme, Detecção de movimento, Gravação
Gravação		
Compressão de vídeo/áudio		H.265+, H.265, H.264+, H264
Modo de gravação		Manual, Agendado (regular e contínuo), Detecção de movimento, Alarme e Inteligência de vídeo
Resoluções de encoder	Stream principal	10, canais em 4K (3840×2160 em 30fps) 14 canais em 5MP (2592×1944 em 30fps) 16 canais em 4MP (2688×1520 / 2560×1440 em 30fps) 16 canais em 3MP (2048×1536 em 30fps) 16 canais em 1080P (1920×1080 em 30fps) 16 canais em 960P (1280×960 em 30fps) 16 canais em 720P (1280×720 em 30fps) 16 canais em D1 (720×576 / 720×480 em 30fps)



Detecção de Vídeo	
Eventos	Gravação, E-mail, Notificações push,
Eventos	Foto, Buzzer e Alarmes
Detecção de vídeo	Detecção de movimento
	1 a 4 (1CH 4K@30fps, 1CH 5MP@30fps,
Reprodução síncrona	2CH 4MP@30fps, 2CH 3M@30fps, 4CH
	1080P@30fps, 4CH 960P@30fps,
	4CH 720P@30fps)
Made de bues	Data e Hora, Alarme, Detecção de
Modo de busca	movimento
	Reproduzir, Pausar, Parar, Retrocesso,
Funções de reprodução	Reprodução rápida, Reprodução lenta,
	Tela cheia, Zoom digital.
Manda da banduna	Dispositivo USB (com formatação
Modo de backup	FAT 32), download por rede

Rede	
Interface	1 conexão RJ45 (10/100/1000 Mbps)
Portas PoE	8 portas PoE 802.3at/af
Potência portas PoE	Potência máxima total 100W
Throughput de rede	200Mbs - 100Mbs entrada /
Till oughput de l'ede	100Mbs transmissão
	TCP/IP, HTTP, UPnP, DNS, NTP, SMTP,
Funções e protocolos	DHCP, FTP, DDNS, RTSP, RTCP, p2p,
	PPPOE
Interoperabilidade	Suporta Onvif 2.8
Navegades	Internet Explorer 8-11, Google Chrome,
Navegador	Firefox
Aplicativo para smartphones (Xelpon Mobile)	iOS (iPhone®) e Android



Armazenamento	
Disco rígido interno	1 porta padrão SATA
Capacidade	1 HD (SATA até 8TB)

Interfaces Auxiliares	
LICD	2 portas (1 no painel traseiro USB 2.0,
USB	1 no painel frontal USB 2.0)
Entradas de alarme	4
Saídas de alarme	1

Geral	
Alimentação	52Vdc / 2500mA / 10W (Sem HD)
Condições de funcionamento	-10 °C~55 °C / 10%~90% RH
Dimensões (L × A × P)	260 × 43 × 215 mm
Peso	2,0kg (sem HD)

TOSHIBA

DT01ABAxxxV SERIES VIDEO STREAM HDD



Product image may represent a design model.

KEY FEATURES

- Up to 3 TB of Storage Capacity
- 24/7 operation
- Annual workload rating of 72 TB/year
- 3.5-inch Form Factor
- 5940 / 5700 rpm
- SATA up to 6.0 Gbit/s
- Advanced Format (AF) 512e Sector Length

APPLICATIONS

- Video Editing Systems
- Set-Top-Box (STB)
- Digital Video Recorders (DVR)
- Network Video Recorders (NVR)

SPECIFICATIONS

Item		DT01ABA300V	DT01ABA200V	DT01ABA100V	DT01ABA050V	
Interface		Serial ATA 3.0 / ATA-8 (6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s)				
Formatted Capac	ity	3 TB	2 TB	1 TB	500 GB	
	Interface Speed (Max)		6.0 Gbit/s			
Performance	Rotation Speed	5940 rpm		5700 rpm		
Periormance	Average Latency Time	5.06 ms		5.27 ms		
	Buffer Size	32 MiB				
Logical Data Bloc	k Length		HOST: 512 B,	DISK: 4096 B		
Supply Voltage	Allowable Voltage	12 V ± 10 % / 5		/ 5 V ± 5 %		
Power	Read / Write (Typ.)	5.4 W	4.7 W	5.7	′ W	
Consumption	Low Power idle (Typ.)	4.2 W	3.3 W	3.0) W	
Acoustics	Idle	24 dB	22 dB	19	dB	
(Sound Power)	Seek	25 dB	24 dB	22	dB	

RELIABILITY

Model Number	DT01ABAxxxV
Non-recoverable Error Rate	1 error per 10 ¹⁴ bits read
MTBF	1 000 000 hours

MECHANICAL SPECIFICATIONS

Item	DT01ABA300V	DT01ABA200V	DT01ABA100V	DT01ABA050V
Height (Max)		26.1	mm	
Width	101.6 mm			
Length (Max)	147 mm			
Weight (Max)	680 g 450 g		0 g	

ENVIRONMENTAL LIMITS

	Item		Specification		
Townsonstrus	Operating	0 °C to 60 °C (No condensation)		0 °C to 60 °C (No condensation)	
Temperature	Non-Operating		- 40 °C to 70 °C (No condensation)		
L Louis Saltino	Operating		8 % to 90 % R.H. (No condensation)		
Humidity	Non-Operating		5 % to 95 % R.H. (No condensation)		
	Operating	686 m/s² { 70 G } (2 ms duration)			
Shock Non-	Non-Operating	2940 m/s ² { 300 G } (2 ms half size wave)	3430 m/s² { 350 G } (2 ms half size wave)		
Vibration	Operating	6.57 m/s² { 0.67 G } (5 to 500 Hz)			
Vibration	Non-Operating	10.2 m/s² { 1.04 G } (2 to 200 Hz)			
Λ 14:4l -	Operating	- 300 m to 3048 m			
Altitude	Non-Operating	- 300 m to 12 000 m			

ENVIRONMENTAL FEATURE

Model Number	DT01ABAxxxV
RoHS	Compatible

Definition of capacity: Toshiba defines a megabyte (MB) as 1 000 000 bytes, a gigabyte (GB) as 1 000 000 000 bytes and a terabyte (TB) as 1 000 000 000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1 073 741 824 bytes and therefore shows less storage capacity.

Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

A kibibyte (KiB) means 2¹⁰, or 1024 bytes, a mebibyte (MiB) means 2²⁰, or 1 048 576 bytes, and a gibibyte (GiB) means 2³⁰, or 1 073 471 824 bytes.

MTBF (Mean Time Between Failure) of the HDDs during its life time is 1 000 000 hours. Average HDA surface temperature: 40 °C or less. Continual or sustained operation at case HDA surface temperature above 40 °C may degrade product reliability.

Toshiba Electronic Devices & Storage Corporation defines "RoHS-Compatible" products as products that either (i) contain no more than a maximum concentration value of 0.1% by weight in Homogeneous Materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) and of 0.01% by weight in Homogeneous Materials for cadmium; or (ii) fall within any of the application exemptions set forth in the Annex to the RoHS Directive (Directive 2011/65/EC of the European Parliament and of the Council of 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment). "Homogeneous Material" means a material of uniform composition that cannot be mechanically disjointed (meaning separated, in principle, by mechanical actions such as unscrewing, cutting, crushing, grinding and/or abrasive processes) into different materials. Examples of "Homogeneous Materials" would be individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins and coatings.

 $\label{eq:Read and write speed may vary depending on the host device, read and write conditions, and file size.$

3.5-inch" mean the form factor of HDDs. They do not indicate drive's physical size.

Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system.

RESTRICTIONS ON PRODUCT USE

Toshiba Corporation and its subsidiaries and affiliates are collectively referred to as "TOSHIBA". Hardware, software and systems described in this document are collectively referred to as "Product".

- TOSHIBA reserves the right to make changes to the information in this document and related Product without notice.
- This document and any information herein may not be reproduced without prior written permission from TOSHIBA. Even with TOSHIBA's
 written permission, reproduction is permissible only if reproduction is without alteration/omission.
- Though TOSHIBA works continually to improve Product's quality and reliability, Product can malfunction or fail. Customers are responsible for complying with safety standards and for providing adequate designs and safeguards for their hardware, software and systems which minimize risk and avoid situations in which a malfunction or failure of Product could cause loss of human life, bodily injury or damage to property, including data loss or corruption. Before customers use the Product, create designs including the Product, or incorporate the Product into their own applications, customers must also refer to and comply with (a) the latest versions of all relevant TOSHIBA information, including without limitation, this document, the specifications, the data sheets and application notes for Product and the precautions and conditions set forth in the "TOSHIBA Semiconductor Reliability Handbook" and (b) the instructions for the application with which the Product will be used with or for. Customers are solely responsible for all aspects of their own product design or applications, including but not limited to (a) determining the appropriateness of the use of this Product in such design or applications; (b) evaluating and determining the applicability of any information contained in this document, or in charts, diagrams, programs, algorithms, sample application circuits, or any other referenced documents; and (c) validating all operating parameters for such designs and applications. TOSHIBA ASSUMES NO LIABILITY FOR CUSTOMERS' PRODUCT DESIGN OR APPLICATIONS.
- PRODUCT IS NEITHER INTENDED NOR WARRANTED FOR USE IN EQUIPMENTS OR SYSTEMS THAT REQUIRE EXTRAORDINARILY HIGH LEVELS OF QUALITY AND/OR RELIABILITY, AND/OR A MALFUNCTION OR FAILURE OF WHICH MAY CAUSE LOSS OF HUMAN LIFE, BODILY INJURY, SERIOUS PROPERTY DAMAGE AND/OR SERIOUS PUBLIC IMPACT ("UNINTENDED USE"). Except for specific applications as expressly stated in this document, Unintended Use includes, without limitation, equipment used in nuclear facilities, equipment used in the aerospace industry, lifesaving and/or life supporting medical equipment, equipment used for automobiles, trains, ships and other transportation, traffic signaling equipment, equipment used to control combustions or explosions, safety devices, elevators and escalators, and devices related to power plant. IF YOU USE PRODUCT FOR UNINTENDED USE, TOSHIBA ASSUMES NO LIABILITY FOR PRODUCT. For details, please contact your TOSHIBA sales representative or contact us via our website.
- Do not disassemble, analyze, reverse-engineer, alter, modify, translate or copy Product, whether in whole or in part.
- Product shall not be used for or incorporated into any products or systems whose manufacture, use, or sale is prohibited under any
 applicable laws or regulations.
- The information contained herein is presented only as guidance for Product use. No responsibility is assumed by TOSHIBA for any
 infringement of patents or any other intellectual property rights of third parties that may result from the use of Product. No license to any
 intellectual property right is granted by this document, whether express or implied, by estoppel or otherwise.
- ABSENT A WRITTEN SIGNED AGREEMENT, EXCEPT AS PROVIDED IN THE RELEVANT TERMS AND CONDITIONS OF SALE
 FOR PRODUCT, AND TO THE MAXIMUM EXTENT ALLOWABLE BY LAW, TOSHIBA (1) ASSUMES NO LIABILITY WHATSOEVER,
 INCLUDING WITHOUT LIMITATION, INDIRECT, CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES OR LOSS, INCLUDING
 WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF OPPORTUNITIES, BUSINESS INTERRUPTION AND LOSS OF DATA, AND
 (2) DISCLAIMS ANY AND ALL EXPRESS OR IMPLIED WARRANTIES AND CONDITIONS RELATED TO SALE, USE OF PRODUCT,
 OR INFORMATION, INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE, ACCURACY OF INFORMATION, OR NONINFRINGEMENT.
- Do not use or otherwise make available Product or related software or technology for any military purposes, including without limitation, for the design, development, use, stockpiling or manufacturing of nuclear, chemical, or biological weapons or missile technology products (mass destruction weapons). Product and related software and technology may be controlled under the applicable export laws and regulations including, without limitation, the Japanese Foreign Exchange and Foreign Trade Law and the U.S. Export Administration Regulations. Export and re-export of Product or related software or technology are strictly prohibited except in compliance with all applicable export laws and regulations.
- Product may include products subject to foreign exchange and foreign trade control laws.
- Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product.
 Please use Product in compliance with all applicable laws and regulations that regulate the inclusion or use of controlled substances, including without limitation, the EU RoHS Directive. TOSHIBA ASSUMES NO LIABILITY FOR DAMAGES OR LOSSES OCCURRING AS A RESULT OF NONCOMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS.

Toshiba Electronic Devices & Storage Corporation

https://toshiba.semicon-storage.com/