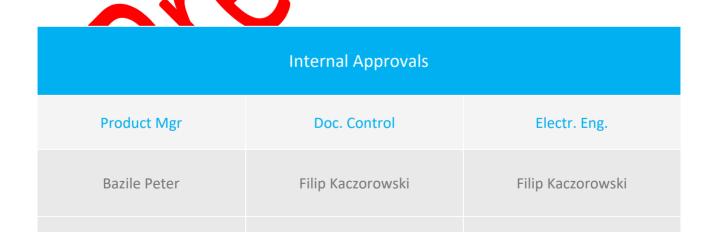


Date: 14/10/2020

10.1" Control Surface, Ethernet ConnectivitySpecification

Project name	TS7-10.1	
Document type	Quick spec	
Customer	Standard	
Document revision	А	Date: 14/10/2020



Date: 14/10/2020

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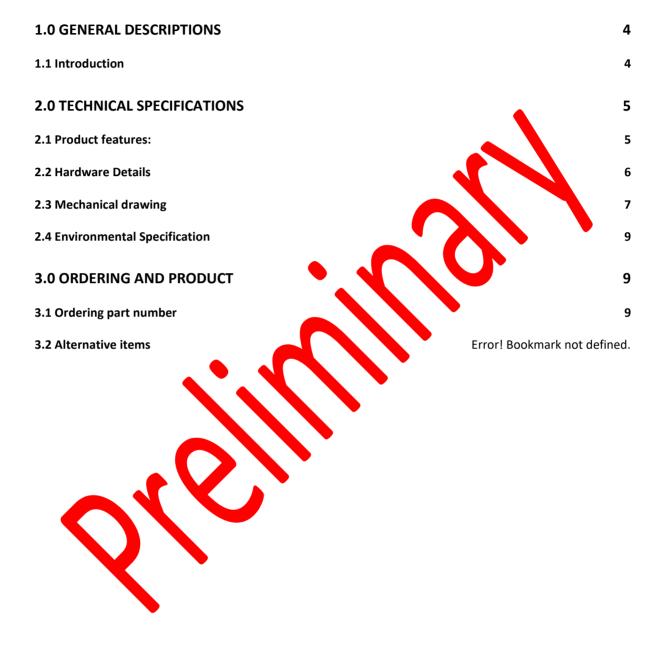


Revision Record

Rev.	Date	Page	Chapt.	Comment	ECR no.
А	14/10/2020			Initial Release	



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1.0 General Descriptions

1.1 Introduction

Aiming to suit Broadcasting application, TS7-10.1 serves as a HMI terminal equipping with multiple functions and supports. Firstly, it provides a user-friendly, highly integrated interacting GUI which allows the users to modify the colour coding in order to achieve more intuitive identification. Also, through RJ45 ethernet connection, all information shown on tally interface like timer, clock, and recorder will be synchronized basing on NTP/LTC protocol. Moreover, with all those connected devices, DS-101XP-01 are capable of controlling light, camera, microphore and all source of images effortlessly in simple steps without a series of bulky transference routers.

In terms of specification, TS7-10.1 is adopting AMD G-Series technology and system-on-Chio (SoC) design is targeting for high performance at low power. Its cutting-edge APU can also support displaying 4K@30Hz through DP interface. With the full 4GB DDR4-2400 as default and M.2 32GB storage, it can cope with the high requirement of data or vides is ansietying demanded by broadcasting customers. Basing on the certified design and solid testing, two OS, Windows 10 or Linux, can be offered in order to apply different system platforms. Multiple USB ports also further expand the connectivity to other devices, while the extra two USB 3.0 are currently one of the most-speedy interface and protocol. In some cases, if extra display output is required, DP port can also be the alternative solution.

The TS-10.1 is one of a family of control surfaces. We can display information and alerts about your broadcast systems and provides ergonomic human-machine interface to any network connected equipment. This multi-touch interactive control unit is high contrast, high brightness, and high resolution IPS TFT with 1200 × 1920 resolution Display & Control unit.

Key Features:

- Stand-alone USB setup
 - Assignable network configuration
- Gigabit Ethernet
- Very low power consumption
- Compact, rugged construction
- High resolution and high brightness



2.0 TECHNICAL SPECIFICATIONS

2.1 Product features:

Item	Contents
Display Type	10.1" Portrait WUXGA
	4x USB (2 x 3.1 + 2 x 2.0)
Main interfaces	1x Gigabit LAN RJ-45
	1 x 3.5mm stereo Jack, line out
Operating System	Windows 10 or Linux
Processor (APU)	AMD APU SOC (FP4) GX-2121JJ
Screen Size	10.1" Diagonal
Display Format	1920 x 1200 pixels
No. of Colour	16.7M (Ture 8-bit)
Overall Dimensions	255.22 x 174.00 x 40.11 mm (w/o stand)
Active Area	135.36 (W) x 216.58 (H) mm
Viewing Angle	L/R: 178° (Typ.) U/D: 178° (Typ.)
Contrast Ratio	1000: 1 (Тур.)
Brightness	450 cd/m ² (Typ.)
Plug & Play	VESA 75 x 75 mm
Touch Technology	PCT
Bonding Type	Optical Bonding
ROHS	Compliant to RoHS 2.0



2.2 Hardware Details

Single Board computer		
Item	Contents	
Processor (APU)	AMD Embedded G-Series SoC, GX-212JJ, low power APU	
Memory	4GB DDR4-2400	
Operating System	Windows 10 or Linux	
Storage	1x M.2 2242 storage 32GB	
Main interfaces	4x USB (2 x USB 3.1 2 x USB 2.0) 1x RJ 45 Ethernet, RealTek RTL8111H-3C GbE LAN 1x 3.5mm stereo Jack, line out 1x RS232	
Graphics processor (GPU)	AMD Radeon™ R1E, 1CU	
Audio	Realtek ALC888S-VD2, support 2 Channel HD Audio Codec	
Power Supply Voltage	1x DC-IN jack (12v 2.1mm)	
Power	1x Power button	
General Dimensions	255.22 x 172.00 x 40.11 mm (w/o stand)	

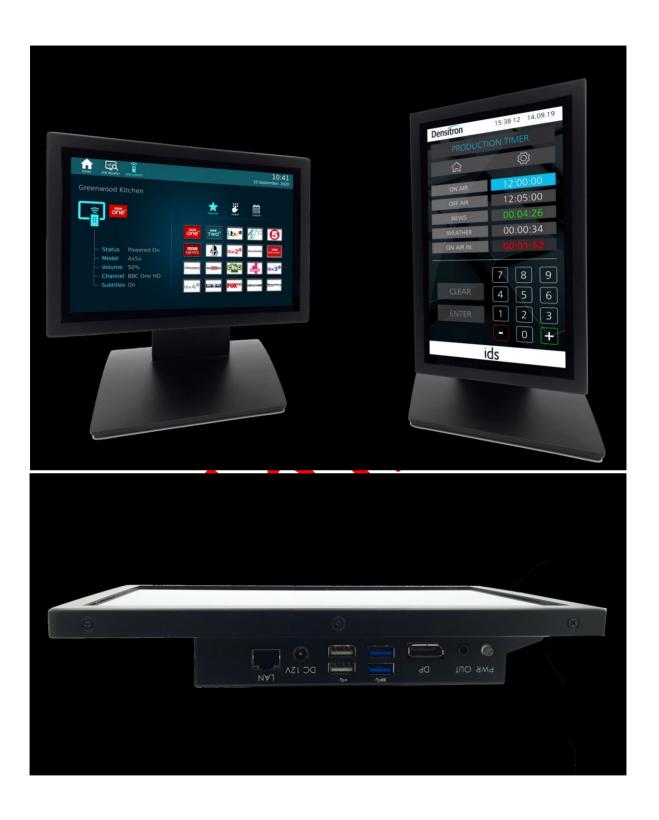
Display		
Item	Contents	
Screen Size	10.1"	
Display Format	1920 x 1200 pixels	
No. of Colour	16.7M (True24-bit)	
Overall Dimensions	TBD	
Active Area	135.36 (W) x 216.58 (H) mm	
Viewing Angle	L/R: 178° (Typ.) U/D: 178° (Typ.)	
Contrast Ratio	1000: 1 (Тур.)	
Brightness	450 cd/m ² (Typ.)	
Pixels per Inch (PPI)	225	
Plug & Play	DDC2B (VESA Standard)	
Response Time	20 msec (Rising + Falling)	



2.3 Mechanical drawing









2.4 Environmental Specification

Item	Contents
Operating Temperature	$0 \sim 40 \degree$ C (in progress)
Storage Temperature	$0 \sim 50 \degree$ C (in progress)
Relative Humidity	95%@40 ° C, non-condensing (in progress)
Operating Vibration	1Grms/5~500Hz, IEC 60068-2-64 (in progress)
Non-Operating Shock	30Grms, 11ms, IEC 60068-2-27 (in progress)
ESD Protection	8kV contact/15kV air (in progress)
EMI	Pass FCC class A testing (in progress)
CE Standard	TBD (in progress) EN 55032, EN 55035
FCC Standard	TBD (in progress) Part 15 B, Class B

3.0 Ordering and product

3.1 Ordering part number

Size	Part Number	Description
16.3"	TS7-10.1	Control Surface, Ethernet Connectivity, ARM Platform

