

ACTIA do Brasil

Av. São Paulo, 555 – Porto Alegre – RS –

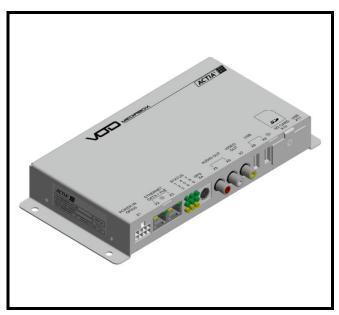
Brazil

CEP: 90230-161

Phone: +55 (51) 3358-0200

www.actia.com.br

PRD10653 VOD SERVER CRYSTAL – ACT800 DATASHEET



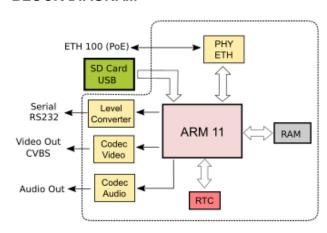
DESCRIPTION

The VOD Server Crystal - ACT800 is entertainment equipment that offers movies and music on demand to passengers. It was specifically designed, qualified and supported for use in automotive applications. It has an ARM11 processor with 32bits and 1GHz of frequency. Also, it has a RAM with 512MB of memory, it being possible to have real time information as route and internet using an app in your mobile (tablets e smartphones).

FEATURES

- Compact Design;
- Individual use with interface;
- Audio and vídeo reproduction;
- Wi-Fi (with access point);
- Internet (with external modem);
- GPS;
- APP Management (Android and iOS).

BLOCK DIAGRAM



	Ву	Date	VOD SERVER	Ref. ACTIA	Index
Draw	E. Viana	11/16/17	CRYSTAL –	PRD10653	Rev02
Verif.	G. Fernandes	29/08/18			
Appr.	C.Dambroz	11/16/17	ACT800		Pagina 1/3



TECHNICAL DATA:

PARAMETER	MIN	TYP	MAX	UNIT
Supply voltage range	9	24	32	Vcc
Power consumption (operation)	-	8	15	W
Operating temperature range	-25	-	70	°C
Degree of protection		IP20		-
Inputs		2 x ETH/10 Video com	•	-
GPS	connectio	nal module n, dimensio x 22 mm, o cable 5m	n: 65 mm	-
UMTS/3G	Ex	ternal mod	ule	-
Processor	ARM1	1 32 bits @	1GHz	-
Memory		512		MB
Storage		SD Card		-
Storage requirement		, 16GB~12 DHC, SDX		-
Access Point	dimension	Hz, 5GHz, N : 139.7 x 86 n, 802.11 b	6.7 x 25.75	-
Weight		350		g

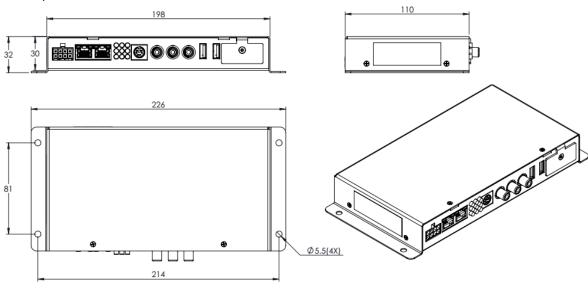
RELIABILITY TESTS				
Operating Temperature	Method: 70°C to -20°C at rate of 1.5°C/min. (15min. each extremes).			
Thermal Shock	ANSI/ASAE EP455 - 5.1.3 -40°C to 70°C at rate of 4°C/min. (1 hour each extremes).			
Humidity	SAE J1455 4.2.3 method 1 -40°C to 70°C @ 8 hours (not operational)			
Salt Spray	SAE J1455 – 4.3 (ASTM B117). 48 hours of application.			
Vibration, Random	SAE J1455 – 9.4.4.2 8 hours each axis @ 50°C (5Hz to 600Hz).			
Shock/Crash safety	ANSI/ASAE EP455 – 5.14.1 A single 11ms half sine pulse of 490m/s^2 on the function axe.			
Overvoltage	36V for 60min.			
Reverse Voltage	ANSI/ASAE EP455 – 5.10.4			
Short circuit protection	All inputs to Vdc, Ground and case for 1 hour.			
Starting Profile	ISO16750- 2- 4.6.3			
Load Dump	ISO16750-2- 4.6.4 160V (+-10%), tr=0,1ms, td=100ms, Ua=28Vdc.			
Switching spikes - Transients	ISO7637-2 Pulse 1, 2a, 2b, 3a and 3b.			



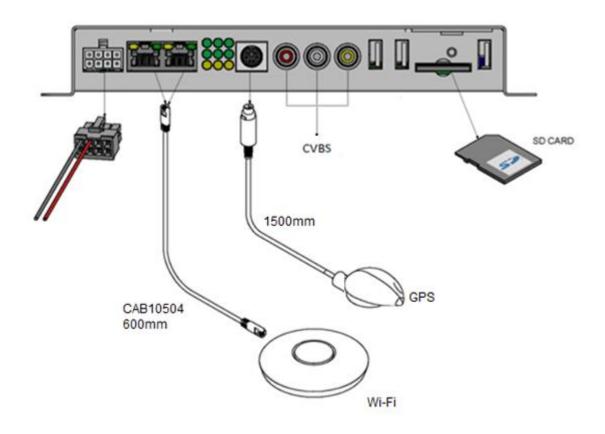
Superimposed alternating voltage	ISO16750-2- 4.4 - Severity 1, 2 and 3.
Discontinuities in supply voltage	ISO16750-2- 4.6 Usmin with 100ms drop.

DIMENSIONS:

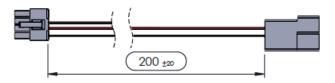
(Millimeters)



CONNECTIONS DETAILS:



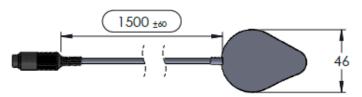




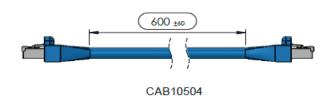
Picture 1 – Supply cable



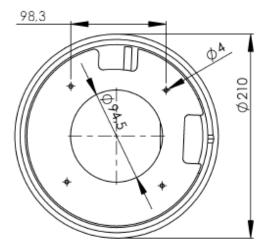
Figura 2 - Connector of the supply cable



Picture 3 - GPS Antenna



Picture 4 - Cable to connect AP Wi-Fi



Picture 5 - AP Wi-Fi

REVISION HISTORY



Rev	Date	Draw.	Descrição
02	29/08/18	G. Fernandes	Chage size of the cables.
			Removing signature field