

High definition satellite set-top box solution



The Pace DZS3000NBS is a high definition set-top box solution for BeIN customers in the Middle East and North Africa. It utilises the latest technology developments to reduce size while increasing performance of the product.

This set-top box boasts a highly capable CPU and system memory to deliver improved performance over previous generation zapper platforms. This means the product is ideally suited to delivering a responsive user experience with rapid access to the database of service information delivered via the satellite feed.

Reduced geometry silicon technology and power down modes ensure power consumption is kept to a minimum. The DZS3000NBS complies with the latest EU regulations regarding power consumption.

The DZS3000NBS features an exclusive product design which delivers a perfect combination of style and manufacturing quality.

Summary

- High definition set-top box solution

Software

- **EPG/Application**
Cisco/NDS Evolution 12
- **Middleware**
Cisco/NDS Evolution 12
- **Boot Loader**
 - Secure bootloader implemented by Cisco/NDS
 - Supporting Broadcast downloads via DVB-S/S2
 - Support for DiSEqC 1.1
- **Drivers**
Pace / Linux OS

CA and Copy Protection

- **Conditional Access**
Cisco Videoguard
- **Smart Card**
SIM sized form factor, ISO 7816 compliant
- **HDCP**
HDCP 1.2
- **Analogue Copy Protection**
CGMS-A

DZS3000NBS

Technical Specifications



CPU

System On a Chip	BCM7358
CPU	MIPS 3300 core (750 DMIPS)
Instruction Cache	32 Kbytes
Data Cache	32 Kbytes
MMU	Present - capable of supporting Linux/POSIX

Memory

RAM	256MB DDR3, speed 1600 MHz, clock @ 800 MHz
Flash Memory	256MB Secure
NVRAM	32KB Emulated in flash

Front End

Input	1 x IEC 60169-24 Female Input
Tuning Range	DVB-S/S2: 950MHz to 2150MHz
Tuner / Demodulators	1 x DVB-S2 QPSK tuner compliant to ETS 300 421
Symbol Rate	DVB-S 10 to 45 MSps DVB-S2 18 to 30 MSps
Reported Signal Level	-25dBm to -65dBm
LNB Polarisation	13/18V Control
LNB Supply	350mA continuous load with short circuit protection
LNB Tone Control	22KHz for high/low band selection
DiSEqC	DiSEqC 1.1; SatCR

Video Decoder

Decoder	One HD video decoder
Aspect Ratio	4:3 and 16:9
MPEG-4 Profiles	MPEG-4 Part 10 MP@L3 720x576 at 50 and 25Hz MPEG-4 Part 10 MP@L3.2 1280x720p at 60, 50 or 30Hz MPEG-4 Part 10 MP@L4.1 1920x1080i at 60 or 50Hz
MPEG-2 Profiles	MPEG-2 MP@HL MPEG-2 MP@ML
Max Bit Rate	15Mb/s for Standard Definition 30Mb/s for High Definition

Audio Decoder

Decoder	One audio decoder
MPEG-1 Audio	Audio Layer I & II
MPEG-4 Audio	MPEG-4 AAC HE L2, AAC HE L4, AAC5.1
Dolby Digital	Dolby Digital and Dolby Digital Plus available as pass-through to HDMI out

Audio Video Output

Analogue AV Outputs	CVBS and Right and Left channel audio on mini-DIN connector
Digital Video	HDMI 1.4b
Digital Audio	Via HDMI and TOSLINK

Front Panel Specification

Remote Control	1 x IR receiver
IR Frequency & Protocol	36 kHz, Philips RC5
LEDs	1 LED (bi colour green/red). Power/standby
Buttons	1 Button - Standby

Power Supply

External PSU, 100-240V AC Input, 12V DC Output	18W plug top PSU with captive mains lead (2 variants - 2-pin EU and 3-pin UK)
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Accessories

User Manual	18-page start-up user guide
Mains Cable and PSU	Plug top PSU
Remote Control	RCU and batteries
Cables	HDMI (1.5m), Audio/Video mini-DIN-to-male RCA (1.25m)

For more information on Pace products please visit our website www.pace.com

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