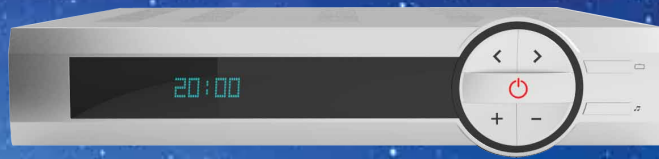


PRODUCT CATALOGUE 2011



Working hard to reinvent the STB
and pioneer the industry



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As Omega, we have committed ourselves to direct our knowledge, abilities, work force and established strengths towards an ambitious goal: To reinvent the Set Top Box that is each day evolving into offering several services in one box. Omega has positioned itself to provide attractive and innovative solutions to its targeted customers.

Omega's business motto is simple: Respect the industry standards and regulations, provide the customers with the Best, and be a pioneer in the field. Creativity and Innovation are our driving force.

Surely existing technologies will contribute to our research and end product. We establish the necessary license agreements with the owners of the Intellectual Property Rights behind these technologies.

Located in Turkey, Omega focuses currently on Europe with its promising and growing market of 27 states as well as Russia and the neighboring countries.

We are aware of our strengths. We believe that our manufacturing base in Izmir will provide us with unique logistics benefits. Our new low cost production facility with fully automated components assembly line ensures our price competitiveness. Our expertise in the field as well as our established relationships with several suppliers and industry-leading companies contribute to our competitive edge.

We have set a vision to become the pioneer to reinvent the Set Top Box within a carefully planned time-frame. Our management along with our young and passionate team are working towards making this vision reality.

AN ADVANTEGOUS BUSINESS COOPERATION

- DELIVERY TO ALL EU COUNTRIES ON DUTY-PAID BASIS
- FREE MOVEMENT CERTIFICATES FOR ALL EU FREE TRADE COUNTRIES
- ALL PRODUCTS FULLY LICENCED COVERING THIRD PARTY TECHNOLOGIES
- 1 % FREE SPARE FOR ALL PRODUCTS DELIVERED
- 2 YEARS STANDARD GUARANTEE
- OPTIONAL DELIVERY LOCATION [ROTTERDAM, THE NETHERLANDS OR IZMIR, TURKEY]

STANDARD DEFINITION TERRESTRIAL RECEIVER

PERSONAL VIDEO RECORDER, USB MEDIA PLAYER (Optional)



- Fully DVB-T compliant
- CPU: SUNPLUS SPHE1003AT-U
- MPEG-2 MP@ML
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 5W
- Digital Reception covers VHF & UHF bands
- 999 channels memory
- Support of active antenna by 5V output
- Program List Categories: 8 Groups
- Automatic and Manual Channel Search, Easy Program Edit
- Teletext with both VBI and OSD
- Multi-language Subtitle support
- Multi-language and 32 bit true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal level & quality indicator
- Parental Lock
- 4 digit 7 segment LED display
- TV SCART standard, VCR SCART optional
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - PVR and Time shift support on USB 2.0 Media
 - MPEG-2 & MPEG-4 ASP (H.263) support on USB 2.0 Media
 - JPEG & MP3 Support on USB 2.0 Media
- Size : 220 x 135 x 38 mm

SYSTEM RESOURCES

CPU	SUNPLUS SHEP1003AT-U
Flash Memory	2 MBytes
SDRAM	16 MBytes



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-T
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-72 ~ -20 dBm
Bandwidth	6 / 7 / 8 MHz
Input impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML
Video Resolution	576i / 480i SD
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG-1 Layer 1 & 2, MPEG-2
Audio Output	20Hz ~ 20KHz, 1.0Vrms \pm 2dB @ 10 Kohm
Volume Level	10 Levels

POWER SUPPLY

Input Voltage	AC 90 ~ 250V, SMPS
Power Consumption	1 W max @ standby, 5W max @ operating

REAR PANEL

SCART	1 TV / 1 VCR (optional)
Antenna	IEC 169-2 Female in
Power	Power Cord in (switch optional)
USB	1 x USB 2.0 (optional)

FRONT PANEL

Keys	7 (Power / CH +, -, /VOL +, -/MENU/OK)
Display	7-segment, 4-digit LED

PHYSICAL SPECIFICATION

Size (WxHxD)	220x135x38 mm
Weight	1.0 kg Net

ACCESSORIES

RCU without batteries, User Manual, AV cables

STANDARD DEFINITION FREEVIEW RECEIVER

PERSONAL VIDEO RECORDER, USB MEDIA PLAYER (Optional)



- Fully DVB-T compliant with MHEG5 support for UK
- CPU: SUNPLUS SPHE1003AT-U
- MPEG-2 MP@ML
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 5W
- Digital Reception covers UHF bands
- 999 channels memory
- Support of active antenna by 5V output
- Program List Categories: 8 Groups
- Automatic and Manual Channel Search, Easy Program Edit
- Teletext with both VBI and OSD
- Multi-language Subtitle support
- English, Gaelic and Welsh 32 bit true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal level & quality indicator
- Parental Lock
- 4 digit 7 segment LED display
- TV SCART standard, VCR SCART optional
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - PVR and Time shift support on USB 2.0 Media
 - MPEG-2 & MPEG-4 ASP (H.263) support on USB 2.0 Media
 - JPEG & MP3 Support on USB 2.0 Media
- Size : 220 x 135 x 38 mm

SYSTEM RESOURCES

CPU	SUNPLUS SHEP1003AT-U
Flash Memory	2 MBytes
SDRAM	16 MBytes



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-T
Input Channels	UHF 21-68
Input Level	-72 ~ -20 dBm
Bandwidth	8 MHz
Input impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML (MPEG-4 ASP on USB only)
Video Resolution	576i / 480i SD
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG Layer 1 & 2, MPEG-2
Output Mode	PCM, AC3
Audio Output	20Hz ~ 20KHz, 1.0Vrms \pm 2dB @ 10 Kohm
Volume Level	10 Levels

POWER SUPPLY

Input Voltage	AC 90 ~ 250V, SMPS
Power Consumption	1 W max @ standby, 5W max @ operating

REAR PANEL

SCART	1 TV / 1 VCR (optional)
Antenna	IEC 169-2 Female in
Power	Power Cord in (switch optional)
USB	1 x USB 2.0 (Optional)

PHYSICAL SPECIFICATION

Size (WxHxD)	220x135x38 mm
Weight	1.0 kg Net

FRONT PANEL

Keys	7 (Power / CH +, -, /VOL +, - /MENU/OK)
Display	7-segment, 4-digit LED

ACCESSORIES

RCU without batteries, User Manual, AV cables

MPEG-4 / H.264 STANDARD DEFINITION USB MEDIA PLAYER
MINI BOX TERRESTRIAL RECEIVER, USB PVR & MULTIMEDIA PLAYER



- Fully DVB-T compliant (ETSI EN DVB-T and ISO/IEC DVB-T standards)
- CPU: MSD 7823
- MPEG-2 MP@ML&HL / MPEG-4 H.264
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Digital Reception covers VHF & UHF bands
- HDMI & Analog AV outputs
- 500 channels memory
- Automatic and Manual Channel Search, Easy Program Edit
- OSD Teletext and Subtitle
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Lock
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - PVR on USB 2.0 Media
 - Easy and fast software upgrade through USB port
 - Media Player on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode
- Box Size : 165 x 65 x 130 mm

SYSTEM RESOURCES

CPU	MSD 7823
Flash Memory	4 MBytes
DDR RAM	512 MBytes DDRII

FRONT-END AND CHANNEL DECODING

Tuner Type	Digital DVB-T MXL5007T RF loop through
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-78 ~ -5 dBm
Band Width	7 / 8 MHz
Input Impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML&HL / MPEG-4 H.264
Video Resolution	SD 576i
Aspect Ratio	4:3, 16:9
Audio Decoding	MPEG Layer 1&2, AAC, Options : AVI, MP3, AC3
Volume Level	32 Levels
Composite Video	PAL / NTSC 1.0Vp-p @ 75 ohm
Audio Output	1.0Vrms @ 10 Kohm (20Hz ~ 20KHz, \pm 2dB / 60Hz ~ 18KHz \pm 0.5dB)

CONNECTORS

Antenna Input	IEC Female
Antenna Output	IEC Male
DC Input	Mini Jack Male
USB	Standard USB Female
HDMI	HDMI 1.3 Output

POWER SUPPLY

External Adaptor	SMPS AC 90 ~ 240V in / 12VDC 1.5A 15 W max
Power Consumption	1 W max @ standby, 5 W max @ operating

PHYSICAL SPECIFICATION

Box Size (WxHxD)	165 x 65 x 130 mm
Box Weight	0.5 kg. net

ACCESSORIES

RCU without batteries, Power Adapter
User Manual

MPEG-4 / H.264 STANDARD DEFINITION
MINI BOX TERRESTRIAL RECEIVER, USB PVR & MULTIMEDIA PLAYER



- Fully DVB-T compliant (ETSI EN DVB-T and ISO/IEC DVB-T standards)
- CPU: MSD 7823
- MPEG4 AVC/H.264 HP@L4, MPEG-2 MP@HL/ML
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 5W
- Digital Reception covers VHF & UHF bands
- HDMI & SCART AV outputs
- Coaxial SPDIF Digital Audio Output
- 1000 channels memory
- Automatic and Manual Channel Search, Easy Program Edit
- OSD Teletext and Subtitle
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Control
- Available Options (subject to license terms & conditions)
 - 7 days Electronic Program Guide (EPG)
 - PVR on USB 2.0 Media
 - Easy and fast software upgrade through USB port
 - Media Player on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode
- Box Size : 215 x 52 x 114 mm

SYSTEM RESOURCES

CPU	MSD 7823
Flash Memory	4 MBytes
DDR RAM	512 MBytes DDRII

FRONT-END AND CHANNEL DECODING

Tuner Type	Digital DVB-T MXL101 RF loop through
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-78 ~ -5 dBm
Band Width	7 / 8 MHz
Input Impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML&HL / MPEG-4 H.264
Video Resolution	SD 576i / 480i
Aspect Ratio	4:3, 16:9
Audio Decoding	MPEG Layer 1&2, AAC, Options : AVI, MP3, AC3
Volume Level	32 Levels
Composite Video	PAL / NTSC 1.0Vp-p @ 75 ohm
Audio Output	1.0Vrms @ 10 Kohm (20Hz ~ 20KHz, \pm 2dB / 60Hz ~ 18KHz \pm 0.5dB)

CONNECTORS

Antenna Input	IEC Female
Antenna Output	IEC Male
DC Input	Mini Jack Male
USB	Standard USB Female
HDMI	HDMI 1.3 Output
RCA	SPDIF Coaxial Output

POWER SUPPLY

External Adaptor	SMPS AC 90 ~ 240V in / 12VDC 1 A 12 W max
Power Consumption	1 W max @ standby, 8 W max @ operating

PHYSICAL SPECIFICATION

Box Size (WxHxD)	215 x 52 x 114 mm
Box Weight	0.5 kg. net

ACCESSORIES

RCU without batteries, Power Adaptor
User Manual

STANDARD DEFINITION SCART STICK TERRESTRIAL RECEIVER



- Fully DVB-T compliant
- CPU: CheerTek CT216 T
- Full Remote Controller
- Digital Reception covers VHF & UHF bands
- Supports both of 4:3 and 16:9 TV sets
- Quick and easy installation & user-friendly menu
- Simple interface to TV set through SCART
- Multi-lingual support on screen Menu
- Excellent Audio and Video quality
- Automatic and manual channel scan options
- Up to 1000 channels
- Favorite list for TV and Radio
- Teletext/Bit Map subtitle, compliant with ETSI/EN300 472 (OSD & VBI)
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG) and information plate
 - Easy and fast software upgrade through USB port
 - PVR and Time shift support on USB 2.0 Media

SYSTEM RESOURCES

CPU	CHEERTEK CT216
Flash Memory	2 MBytes
SDRAM	16 MBytes



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-T
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-82 ~ -20 dBm
Bandwidth	7 or 8 MHz
Input	IEC 169-2 Female, 75 Ω unbalanced
Loop through output	IEC 169-24 male, 75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard Interval	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML
Video resolution	720x576(PAL 576i), 720x480 (NTSC 480i)
Aspect ratio	4:3, 16:9
Composite Video	PAL 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG Layer 1 & 2
Audio output	1.0Vrms @ 10 Kohm (20Hz ~ 20KHz, \pm 2dB / 60Hz ~ 18KHz \pm 0.5dB)
Sampling Rate	32, 44.1, 48KHz

POWER SUPPLY

External Adaptor	SMPS AC 90 ~ 250V in / 12VDC 1.5A 15W max
Power Consumption	1 W max @ standby, 5W max @ operating

PHYSICAL SPECIFICATION

Box Size (WxHxD)	200 x 80 x 100 mm
Box Weight	0.5 kg Net

ACCESSORIES

RCU without batteries, User Manual,
Power Adapter, IR Receiver, Warranty Card

MPEG-4 / H.264 STANDARD DEFINITION
SCART STICK TERRESTRIAL RECEIVER, USB PVR & MULTIMEDIA PLAYER



- Fully DVB-T compliant (ETSI EN DVB-T and ISO/IEC DVB-T standards)
- CPU: MSD 7823
- MPEG-2 MP@ML&HL / MPEG-4 H.264
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Digital Reception covers VHF & UHF bands
- HDMI & Analog AV outputs
- 500 channels memory
- Automatic and Manual Channel Search, Easy Program Edit
- OSD Teletext and Subtitle
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Lock
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - PVR on USB 2.0 Media
 - Easy and fast software upgrade through USB port
 - Media Player on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode
- Box Size : 165 x 65 x 130 mm

SYSTEM RESOURCES

CPU	MSD 7823
Flash Memory	4 MBytes
DDR RAM	512 MBytes DDRII

FRONT-END AND CHANNEL DECODING

Tuner Type	Digital DVB-T MXL5007T RF loop through
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-78 ~ -5 dBm
Band Width	7 / 8 MHz
Input Impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML&HL / MPEG-4 H.264
Video Resolution	SD 576i
Aspect Ratio	4:3, 16:9
Audio Decoding	MPEG Layer 1&2, AAC, Options : AVI, MP3, AC3
Volume Level	32 Levels
Composite Video	PAL / NTSC 1.0Vp-p @ 75 ohm
Audio Output	1.0Vrms @ 10 Kohm (20Hz ~ 20KHz, \pm 2dB / 60Hz ~ 18KHz \pm 0.5dB)

CONNECTORS

Antenna Input	IEC Female
Antenna Output	IEC Male
IR Remote Control	Mini Jack Female
DC Input	Mini Jack Male
USB	Mini USB Female
HDMI	HDMI 1.3 Output

POWER SUPPLY

External Adaptor	SMPS AC 90 ~ 240V in / 12VDC 1 A 12 W max
Power Consumption	1 W max @ standby, 5 W max @ operating

PHYSICAL SPECIFICATION

Box Size (WxHxD)	165 x 65 x 130 mm
Box Weight	0.5 kg. net

ACCESSORIES

RCU without batteries, Power Adapter
IR Receiver, User Manual

HIGH DEFINITION TERRESTRIAL RECEIVER

PERSONAL VIDEO RECORDER, USB MEDIA PLAYER



- Fully DVB-T compliant
- CPU: NEC MC10087
- MPEG-2 / MPEG-4(H.264) SD/HD decoding (MP@ML/HL)
- EU Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Digital Reception covers VHF & UHF band
- Conversion between SD programs and HD programs
- 500 channels memory
- 8 Favorite channel groups
- Automatic and Manual Channel Search, Easy Program Edit
- Teletext output with both VBI and OSD
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal level & quality indicator
- Parental Lock
- 4 digit 7 segment LED display
- TV SCART standard, VCR SCART optional
- RCA AV Out (Video, Left/Right Audio)
- HDMI Out (Digital High Definition AV out)
- YPbPr Out (Analog High Definition Video out)
- S/P DIF Out (Coaxial)
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - PVR and Time shift support on USB 2.0 Media
 - JPEG & MP3 Support on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode/pass through to the SPDIF out
- Size: 260 x 205 x 48 mm

SYSTEM RESOURCES

CPU	NEC MC10087
Flash Memory	8 MBytes
SDRAM	128 MBytes



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-T
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-72 ~ -20 dBm
Bandwidth	6 / 7 / 8 MHz
Input impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML, MPEG-4 AVC (MP L4.1)
Video Resolution	1080i, 720P, 480P/576P, 480i/576i SD compatible
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG Layer 1 & 2, AAC, Option: AC3
SPDIF Output Mode	PCM, Option: AC3
Audio Output	20Hz ~ 20KHz, 1.0Vrms ± 2dB @ 10 Kohm
Volume Level	32 Levels

POWER SUPPLY

Input Voltage	AC 90 ~ 250V, SMPS
Power Consumption	1 W max @ standby, 7W max @ operating

REAR PANEL

SCART	1 TV / 1 VCR (optional)
RCA	7 (YPbPr / CVBS / L / R / SPDIF)
HDMI	1
Antenna	IEC 169-2 Female in / Male out
Power	Power Cord in (switch optional)

PHYSICAL SPECIFICATION

Size (WxHxD)	260x205x48 mm
Weight	1.1 kg Net

FRONT PANEL

Keys	3 (Power / CH UP, DOWN)
Display	7-segment, 4-digit LED
USB	
CA Card slot	1 x USB 2.0 (optional)

ACCESSORIES

RCU without batteries, User Manual,
Warranty Card, HDMI / SCART cables

HIGH DEFINITION TERRESTRIAL RECEIVER

PERSONAL VIDEO RECORDER, USB MEDIA PLAYER



- Fully DVB-T compliant
- CPU: MSD 7828-LF
- MPEG-2 MP@ML / MPEG-4 H.264
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Digital Reception covers VHF & UHF bands
- Conversion between SD and HD video outputs
- 1000 channels memory
- 4 Favorite channel groups
- Automatic and Manual Channel Search, Easy Program Edit
- Teletext output with both VBI and OSD
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Lock
- 4 digit 7 segment LED display
- TV SCART standard
- RCA AV Out (Video, Left/Right Audio)
- HDMI Out (Digital High Definition AV out)
- YPbPr Out (Analog High Definition Video out)
- S/P DIF Out (Coaxial)
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - PVR and Time shift support on USB 2.0 Media
 - JPEG, MP3 & WMA support on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode / pass through to the SPDIF out
- Size : 255 x 185 x 38 m

SYSTEM RESOURCES

CPU	MSD 7828-LF
Flash Memory	8 MBytes
SDRAM	2 x 64 MBytes



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-T
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-72 ~ -20 dBm
Bandwidth	6 / 7 / 8 MHz
Input impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML / MPEG-4 H.264
Video Resolution	1080i, 720P, 480P/576P, 480i/576i SD compatible
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC
Audio Decoding	MPEG Layer 1 & 2, AAC, Options: WMA, MP3, AC3
Output Mode	PCM or optional Dolby Digital (AC3) pass through
Audio Output	20Hz ~ 20KHz, 1.0Vrms ± 2dB @ 10 Kohm
Volume Level	32 Levels

POWER SUPPLY

Input Voltage	AC110~250V, SMPS
Power Consumption	1W max @ standby, 8W max @ operating

REAR PANEL

SCART	1 TV
RCA	7 (YPbPr / CVBS / L / R / SPDIF)
HDMI	1
Antenna	IEC Female RF in/Male RF out
Power	Power Cord in (switch optional)

FRONT PANEL

Keys	7 (Power, Ch+, Ch-, V+, V-, Menu, OK)
Display	7-segment, 4-digit LED
USB	1 x USB 2.0

PHYSICAL SPECIFICATION

Size (WxHxD)	255x185x38 mm
Weight	1.5 kg Net

ACCESSORIES

RCU without batteries, User Manual, SCART Cable

HIGH DEFINITION TERRESTRIAL RECEIVER

PERSONAL VIDEO RECORDER, USB MEDIA PLAYER



- Fully DVB-T compliant
- CPU: MSD 7828-LF
- MPEG-2 MP@ML / MPEG-4 H.264
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Digital Reception covers VHF & UHF bands
- Conversion between SD and HD video outputs
- 1000 channels memory
- 4 Favorite channel groups
- Automatic and Manual Channel Search, Easy Program Edit
- Teletext output with both VBI and OSD
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Lock
- 4 digit 7 segment LED display
- TV SCART standard
- RCA AV Out (Video, Left/Right Audio)
- HDMI Out (Digital High Definition AV out)
- YPbPr Out (Analog High Definition Video out)
- S/P DIF Out (Coaxial)
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - PVR and Time shift support on USB 2.0 Media
 - JPEG, MP3 & WMA support on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode/pass through to the SPDIF out
- Size : 255 x 185 x 38 mm

SYSTEM RESOURCES

CPU	MSD 7828-LF
Flash Memory	8 MBytes
SDRAM	2 x 64 MBytes



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-T
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-72 ~ -20 dBm
Bandwidth	6 / 7 / 8 MHz
Input impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP @ ML / MPEG-4 H.264
Video Resolution	1080i, 720P, 480P/576P, 480i/576i SD compatible
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC
Audio Decoding	MPEG Layer 1 & 2, AAC, Options: WMA, MP3, AC3
Output Mode	PCM or optional Dolby Digital (AC3) pass through
Audio Output	20Hz ~ 20KHz, 1.0Vrms \pm 2dB @ 10 Kohm
Volume Level	32 Levels

POWER SUPPLY

Input Voltage	AC110~250V, SMPS
Power Consumption	1W max @ standby, 8W max @ operating

REAR PANEL

SCART	1 TV
RCA	7 (YPbPr / CVBS / L / R / SPDIF)
HDMI	1 / USB 1
Antenna	IEC Female RF in/Male RF out
Power	Power Cord in (switch optional)

FRONT PANEL

Keys	7(Power, Ch+, Ch-, V+, V-, Menu, OK)
Display	7-segment, 4-digit LED

PHYSICAL SPECIFICATION

Size (WxHxD)	255x185x38 mm
Weight	1.5 kg Net

ACCESSORIES

RCU without batteries, User Manual, SCART Cable

HIGH DEFINITION HDMI STICK TERRESTRIAL RECEIVER USB MEDIA PLAYER



- Fully DVB-T compliant
- CPU: MSD 7823
- MPEG-2 MP@ML&HL / MPEG-4 H.264
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Digital Reception covers VHF & UHF bands
- Conversion between SD & HD channels to HDMI & Analog AV outputs
- 1000 channels memory
- Automatic and Manual Channel Search, Easy Program Edit
- OSD Teletext and Subtitle
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Lock
- Analogue AV Output (Stereo & CVBS)
- HDMI 1.3 Out (up to 1080i Digital High Definition AV out)
- Available Option (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - JPEG, MP3 & WMA Support on USB 2.0 Media
 - Dolby Digital (AC3) decoding in stereo mode
- Box Size : 155 x 65 x 128 mm

SYSTEM RESOURCES

CPU	MSD 7823
Flash Memory	32 MBit
DDR RAM	512 MBit

FRONT-END AND CHANNEL DECODING

Tuner Type	Digital DVB-T MXL101 RF loop through
Input Channels	VHF 5-12 / UHF 21-69 (174 ~ 860 MHz)
Input Level	-78 ~ -5 dBm
Band Width	7 / 8 MHz
Input Impedance	75 Ω unbalanced
Demodulation	COFDM (QPSK, 16QAM, 64QAM)
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	2K, 8K
Guard	1/4, 1/8, 1/16, 1/32

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML&HL / MPEG-4 H.264
Video Resolution	1080i, 720P, 480P/576P, 480i/576i SD compatible
Aspect Ratio	4:3, 16:9
Audio Decoding	MPEG Layer 1&2, AAC, Options : AVI, MP3, AC3
Volume Level	32 Levels
Composite Video	PAL / NTSC 1.0Vp-p @ 75 ohm
Audio Output	1.0Vrms @ 10 Kohm (20Hz ~ 20KHz, \pm 2dB / 60Hz ~ 18KHz \pm 0.5dB)

CONNECTORS

Antenna Input	IEC Female
Antenna Output	IEC Male
IR Remote Control	Mini Jack 1
AV Output	Mini Jack 2
USB	Mini USB Female
HDMI	HDMI 1.3 Output

POWER SUPPLY

External Adaptor	SMPS AC 90 ~ 240V in / 12VDC 1.5A 15 W max
Power Consumption	1 W max @ standby, 8W max @ operating

PHYSICAL SPECIFICATION

Box Size (WxHxD)	155 x 65 x 128 mm
Box Weight	0.5 kg. net

ACCESSORIES

RCU without batteries, Power Adapter
IR Receiver, User Manual

STANDARD DEFINITION SATELLITE RECEIVER



- Free-to-Air, Fully DVB-S Compliant (Standard Definition)
- ST Chipset : STi 5188 CPU / STV 6110A Tuner / ViPER 27 SMPS
- Supported Video mode : MPEG-2 MP@ML
- Low Power Consumption (Standby < 1W, No Load Operation < 5W)
- Full function SCART (AV-RGB)
- RCA Video, RCA L-R Audio
- Optic SPDIF for digital audio
- RS-232 interface
- Network Scan and Blind Scan
- Pan European Menu Languages
- 4000 TV & RADIO services storage capacity
- Service switching time less than 1 second
- Service list editing
- True Color On-Screen Display (OSD)
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- Parental lock facility by service and program event
- Available Option (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG) for on screen service information

SYSTEM RESOURCES

CPU	ST STi5188
Flash Memory	2MB
SDRAM	16MB

FRONT-END AND CHANNEL DECODING

Tuner Type	Digital DVB-S
Input Channels	950 ~ 2150MHz
Input Level	-65dBm ~ -25dBm
Input Impedance	75 Ω unbalanced (F type Female connector)
Demodulation	DVB-S : QPSK
Symbol Rate	DVB - S 2 ~ 45 Msps
FEC	1/2, 2/3, 3/4, 5/6, 7/8
LNB Power	Vertical 13V ~ 14V, Horizontal 18V ~ 19V, maximum 500 mA

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML
Video Resolution	SD PAL 576i (720 x 576)
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG Layer 1 & 2
SPDIF Output Mode	PCM
Audio Output	20Hz ~ 20KHz, 2.0Vrms \pm 2dB @ 4.7 Kohm
Audio Sampling	32, 44.1 and 48 kHz

POWER SUPPLY

Input Voltage	AC 90 ~ 250V, SMPS
Power Consumption	1 W max @ standby, 5W max @ operating

REAR PANEL

SCART	1 TV
RCA	3 (CVBS / L / R)
Optical	1 (SPDIF)
Antenna	F TYPE Female in
Power	Power Cord in (AC switch optional)

PHYSICAL SPECIFICATION

Size (WxHxD)	220x40x190 mm
Weight	1.1 kg Net

FRONT PANEL

Keys	1
Display	2 LED

ACCESSORIES

RCU without batteries, User Manual,
Warranty Card, SCART cable

STANDARD DEFINITION SATELLITE RECEIVER with ON-BOARD SATELLITE RADIO



- Free-to-Air, Fully DVB-S Compliant (Standard Definition)
- ST Chipset : STi 5188 CPU / STV 6110A Tuner / ViPER 27 SMPS
- Supported Video mode : MPEG-2 MP@ML
- Low Power Consumption (Standby < 1W, No Load Operation < 5W)
- Full function SCART (AV-RGB)
- RCA Video, RCA L-R Audio
- Optic SPDIF for digital audio
- RS-232 interface
- Network Scan and Blind Scan
- Pan European Menu Languages
- 4000 TV & RADIO services storage capacity
- Service switching time less than 1 second
- Service list editing
- True Color On-Screen Display (OSD)
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- Parental lock facility by service and program event
- One touch TV / RADIO
- On-board speakers for stand-alone RADIO function / Alarm Radio
- 16 Character VFD for TV/RADIO Channel Name and Clock / Alarm Clock
- Available Option (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG) for on screen service information

SYSTEM RESOURCES

CPU	ST ST5188
Flash Memory	2 MB
SDRAM	16 MB

FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-S
Input Channels	950 ~ 2150MHz
Input Level	-65dBm ~ -25dBm
Input Impedance	75 Ω unbalanced (F type Female connector)
Demodulation	DVB-S : QPSK
Symbol Rate	DVB-S 2 ~ 45 Msps
FEC	1/2, 2/3, 3/4, 5/6, 7/8
LNB Power	Vertical 13V ~ 14V, Horizontal 18V ~ 19V, maximum 500 mA

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML
Video Resolution	SD PAL 576i (720 x 576)
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG Layer 1 & 2
SPDIF Output Mode	PCM
Audio Output	20Hz ~ 20KHz, 2.0Vrms \pm 2dB @ 4.7 Kohm
Audio Sampling	32, 44.1 and 48 kHz

POWER SUPPLY

Input Voltage	AC 90 ~ 250V, SMPS
Power Consumption	1 W max @ standby, 5W max without Radio / 8W max with Radio

AUDIO OUTPUT

Output Power	2 x 1W RMS @ 8 ohm internal speakers
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REAR PANEL

SCART	1 TV
RCA	3 (CVBS / L / R)
Optical	1 (SPDIF)
Antenna	F TYPE Female in
Power	Power Cord in (switch optional)

PHYSICAL SPECIFICATION

Size (WxHxD)	220x40x190 mm
Weight	1.1 kg Net

FRONT PANEL

Keys	7
	Standby, TV, Radio, P+, P-, V+, V-
Display	2 LED / 16 character VFD (option)

ACCESSORIES

	RCU without batteries, User Manual,
	Warranty Card, SCART cable

STANDARD DEFINITION SATELLITE RECEIVER



- Free-to-Air, Fully DVB-S Compliant (Standard Definition)
- Cheertek CT216S-T CPU
- Supported Video mode : MPEG-2 MP@ML
- Low Power Consumption (Standby < 1W, No Load Operation < 5W)
- Full function SCART (AV-RGB)
- RCA Video, RCA L-R Audio,
- Network Scan (NIT)and Blind Scan
- Pan European Menu Languages
- 5000 TV & RADIO services storage capacity
- Service switching time less than 1 second
- Service list editing
- True Color On-Screen Display (OSD)
- Teletext and Subtitle supported by OSD
- DisEqC1.0, DisEqC1.2 switch and USALS motor supported
- Available Option: (subject to license terms & conditions)
 - 7 days Electronic Program Guide (EPG)
 - Easy and fast software upgrade through USB port
 - JPEG & MP3 Support on USB 2.0 Media
 - PVR and Time shift support on USB 2.0 Media
- Box Size : 196mm x 40mm x 130mm

SYSTEM RESOURCES

CPU	Cheertek CT216S-T
Flash Memory	2 MB
SDRAM	8 MB



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-S
Input Channels	950 ~ 2150MHz
Input Level	-65dBm ~ -25dBm
Input Impedance	75 Ω unbalanced (F type Female connector)
Demodulation	DVB-S : QPSK
Symbol Rate	DVB-S 2 ~ 45 Msps
FEC	1/2, 2/3, 3/4, 5/6, 7/8
LNB Power	Vertical 13.5V +/-1V, Horizontal 18.5V +/-1V, maximum 400 mA

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@ML
Video Resolution	SD 480P/576P,480i/576i
Aspect Ratio	4:3, 16:9
Composite Video	PAL / NTSC, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG-1 Layer I and II and III
Audio output	20Hz ~ 20KHz, 2.0Vrms ± 2dB @ 4.7 Kohm
Audio Sampling	32, 44.1 and 48 kHz
Volume level	24 Levels

POWER SUPPLY

External Adaptor	SMPS AC 90 ~ 250V in / 12VDC 1.5A 15W max
Power Consumption	1 W max @ standby, 5W max @ operating

REAR PANEL

SCART	1 TV
RCA	3 (CVBS / L / R)
Antenna	F TYPE Female in
USB	1

FRONT PANEL

Keys	3
Display	2 LED

PHYSICAL SPECIFICATION

Size (WxHxD)	196mm x 40mm x 130mm
Weight	1.1 kg Net

ACCESSORIES

RCU without batteries, User Manual,

HIGH DEFINITION SATELLITE RECEIVER

PERSONAL VIDEO RECORDER



- Compliant with European Satellite Digital TV Standards
- Supports DVB-S2 & DVB-S QPSK/8PSK
- Supported Video modes : MPEG-2 MP@HL & H.264 High Profile Level 4.1
- HD Video Output 1080i / 720p / 576p @50Hz
- HDMI Digital & YPbPr Analog HD Video Interface
- Optical & Coaxial S/PDIF Digital Audio Output
- Analogue Stereo Output with 5.1 Ch downmix
- Max 9,999 TV Channels & 4.999 Radio Channels Memory Capacity
- Intuitive, Easy to use Menu structure
- 65K Color, high resolution OSD (On Screen Display)
- Clear True Type Font used for OSD (Licensed from Bitstream Inc.)
- European & Middle Eastern Teletext & DVB Subtitle support, easy to read font
- Vacuum Fluorescent Display (VFD) Front display Panel
- DiSEqC 1.0 / 1.2 / USALS support
- 2x Common Interface (CI), very fast recognition speed
- ST OS21 Set Top Box Operating System Software
- Ultra Fast boot time: less than 5 seconds after switch on
- Fast Responsive Remote Control during menu Access & Navigation
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Dolby Digital (AC3) decoding in stereo mode/pass through to the SPDIF out
 - Easy firmware upgrade via USB port
 - Fast external HDD recognition & extremely stable operation
 - USB port is PVR Ready for use with external USB disc drive
 - PVR and Time shift support on USB 2.0 Media
 - Easy to use PVR menu functions (Contents Browser, Schedule List ...)
 - Up to 120 minutes of Time-Shift function
 - Up to 64 scheduled recording support
 - Support simultaneous Recording of 2 programs in the same TP
 - CONAX Embedded System
 - No conflict between CARD & CAM during simultaneous use
 - Multiple descramble capability (1 Live + 2 Records)

SYSTEM RESOURCES

CPU	ST STi7100
Flash Memory	8MB
SDRAM	192MB



FRONT-END AND CHANNEL DECODING

Tuner type	Digital DVB-S / S2
Input Channels	950 ~ 2150MHz
Input Level	-65dBm ~ -25dBm
Input impedance	75 Ω unbalanced (F type Female connector)
Demodulation	DVB-S2, DVB-S : QPSK, 8PSK
Symbol Rate	DVB-S2 (8PSK/QPSK) : 10~31Msps , DVB-S (QPSK) : 2~45Msps
FEC	QPSK/LDPC/BCK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 8/9, 9/10 8PSK/LDPC/BCH: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
LNB Power	Vertical 13V ~ 14V, Horizontal 18V ~ 19V, maximum 500 mA

MPEG AUDIO AND VIDEO DECODING

Transport Stream	ISO/IEC 13818, MPEG-2 MP@HL, MPEG-2 MP@ML, MPEG-4/H.264
Video Resolution	1080i, 720p, 576p @50Hz and SD PAL 576i
Aspect Ratio	4:3, 16:9, Letter Box, Pillar Box
Composite Video	PAL, 1.0Vp-p @ 75 ohm, 5.5 MHz Bandwidth
Audio Decoding	MPEG Layer 1 & 2, Optional: Dolby Digital (AC3)
SPDIF Output Mode	PCM, Optional AC3
Audio Output	20Hz ~ 20KHz, 2.0Vrms \pm 2dB @ 4.7 Kohm
Audio Sampling	32, 44.1 and 48 kHz

POWER SUPPLY

Input Voltage	AC 90 ~ 250V, SMPS
Power Consumption	2 W max @ standby, 15W max @ operating

REAR PANEL

SCART	1 TV / 1 VCR (optional)
RCA	7 (YPbPr / CVBS / L / R / SPDIF)
HDMI	1 / USB 1
Optical	1 (SPDIF)
Antenna	F TYPE Female in / out
Power	Power Cord in (switch optional)

PHYSICAL SPECIFICATION

Size (WxHxD)	340x70x270 mm
Weight	2.1 kg Net

FRONT PANEL

Keys	8
Display	Vacuum Fluorescent Display
CI Slot	2
CA Card Slot	1 (optional)

ACCESSORIES

RCU without batteries, User Manual, Warranty Card, HDMI / SCART cables

HIGH DEFINITION HDMI STICK SATELLITE RECEIVER



- Fully DVB-S/S2 compliant
- CPU: MSD 7823
- MPEG-2 MP@ML&HL / MPEG-4 H.264
- EuP Directive 107.2009 compliant : Standby < 1 W, Operating < 8W
- Conversion of SD channels to HDMI output
- 5000 channels memory
- Auto scan / TP scan / Blind scan
- OSD Teletext and Subtitle
- Multi-language Subtitle output supported
- Multi-language and 32 bits true color On Screen Display (OSD)
- Aspect Ratio 4:3 and 16:9
- Signal quality indicator
- Parental Lock
- HDMI 1.3 Out (1080i, 720p and 576p)
- DiSEqC 1.0 / 1.1 / 1.2 & USALS
- OTA (over-to-air)
- Easy and fast software upgrade through USB port
- Available Options (subject to license terms & conditions):
 - 7 days Electronic Program Guide (EPG)
 - Dolby Digital (AC3) decoding in stereo mode
- Box Size : 155 x 65 x 128 mm

SYSTEM RESOURCES

<i>CPU</i>	<i>MSD 7823</i>
<i>Flash Memory</i>	<i>8 MBytes</i>
<i>DDR RAM</i>	<i>128 MBytes</i>

FRONT-END AND CHANNEL DECODING

<i>Tuner Type</i>	<i>DVB-S/S2 RF loop through</i>
<i>Input Channels</i>	<i>950 ~ 2150 MHz</i>
<i>Input Level</i>	<i>-65 ~ -25 dBm</i>
<i>Demodulation</i>	<i>QPSK, 8PSK</i>
<i>FEC</i>	<i>Automatic</i>

MPEG AUDIO AND VIDEO DECODING

<i>Transport Stream</i>	<i>ISO/IEC 13818, MPEG-2 MP@ML&HL / MPEG-4 H.264</i>
<i>Video Resolution</i>	<i>1080i, 720p, 576p</i>
<i>Aspect Ratio</i>	<i>4:3, 16:9</i>
<i>Audio Decoding</i>	<i>MPEG Layer 1&2, AAC, Option : AC3</i>
<i>Volume Level</i>	<i>32 Levels</i>

CONNECTORS

<i>LNB Input</i>	<i>F Type</i>
<i>Antenna Output</i>	<i>F Type</i>
<i>IR Remote Control</i>	<i>Mini Jack</i>
<i>DC Input</i>	<i>Mini Jack</i>
<i>USB</i>	<i>Mini USB Female</i>
<i>HDMI</i>	<i>HDMI 1.3 Output</i>

POWER SUPPLY

<i>External Adaptor</i>	<i>SMPS AC 100 ~ 240V in / 12VDC 1.5A 15 W max</i>
<i>Power Consumption</i>	<i>1 W max @ standby, 8W max @ operating</i>

PHYSICAL SPECIFICATION

<i>Box Size (WxHxD)</i>	<i>155 x 65 x 128 mm</i>
<i>Box Weight</i>	<i>0.5 kg. net</i>

ACCESSORIES

<i>RCU without batteries, Power Adapter</i>
<i>IR Receiver, User Manual</i>



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