



Transmitters DTMB

Product Catalogue 2Q 2013





Screen Service

IT WORKS.

Screen Service is a worldwide known company focused on turn key and end-to-end solutions for all broadcaster needs.

With more than 20 years of experience and thousands of satisfied customers, Screen Service is the leading company in digital TV technology.





Historical Milestones

1980s

In the late 1980s Screen Service Italia (SSI) was founded in Brescia. It was active in management, assistance and trading of TV-radio systems, radio transmitters and other electronic equipment.

1990s

- SSI starts internal production of TV Transmitters and Microwave Links.
- Strategic partnership with M.B. International Srl, broadens its product portfolio with digital broadcasting technology.

2000s

- **2004:** SSI acquires a 39% stake in Innovaction S.r.l., a company which operates in projects and prototypes of electronics and transmission equipment.
- **2004:** Cape Natexis Private Equity Fund (CNPEF) and Fondamenta acquired a 60% stake in the company through SSBT S.p.A.
- **2005:** SSBT incorporates Screen Service America (SSA).
- **2005:** SSBT acquires the entire capital of M.B. International Telecom Labs S.r.l. (MBITL), a spin-off of M.B. International S.r.l.

2006s

- Screen Service System (SSS) is incorporated, entering into the system integration business with an opportunistic approach.
- **11-Jun-2007:** first day listed on the Milan Stock Exchange "Expandi Market".

2007s

- **Jun-2007:** MBITL signs agreement with Xilinx (NASDAQ – XLNX) as R&D partner for the development of several protocols in order to allow IPTV (Internet Protocol Television) to function on Xilinx's Platform.
- **Jun-2007:** Screenlogix is established and is expected to be involved in the development of a new generation of Hi-speed SuperComputers for number crunching, virtual servers and computer graphics.

- **Oct-2007:** SSBT acquires order from an important System Integrator for the supply of innovative transmitters for the broadcasting of digital terrestrial TV and mobile TV, manufactured according to the Software Defined Transmitter (SWDT) technology. The order has a value of approx. **16 million Euros.**

- **Oct-2007:** MBITL signs agreement with a major company, S&P 500 listed to develop software on embedded/digital signal processing family by utilizing the concept of "Software Defined Radio" of which MBITL is a pioneer.

2008s

- **At the end of January 2008,** Screen Service do Brasil (SSB) is incorporated and is already in a position to deliver the ISDB-T standard (also used in Japan) that has been adopted in Brazil for digital transmission.
- **Mar-2008:** record contract signed with RRD and Profit Group worth 14,5 million Euros (duration of 30 months w.e.f. 1-Apr-2008) for the supply of DVB-T equipment necessary to complete and define the digitalization process of the interregional broadcasters controlled by Profit Group.
- **Mar-2008:** financial loan of 8 million Euro granted to Profit Group (expired date 17-Mar-2011) which entitles SSBT to be the privileged supplier (first call-last refusal) of equipment necessary to the construction of the Wi-Max network of the following Italian Regions: Liguria, Toscana and the Province of Trento.
- **Mar-2008:** a call option has been granted by Profit Group for the purchase of 30% of share capital of RRD, leader in the supply of large scale solution in DVB-H technology. It can be exercised within March 2011 at a price of 7 million Euros.

2009s

- **SCREEN SERVICE acquires 100%** of RRD Reti Radiotelevisive Digitali S.r.l., a leader in the broadcast and telecommunications services industry.
- Screen Service and RRD play a primary role in the definition of the new standard for the US market, ATSC Mobile DTV (A/153), collaborating with OMVC (Open Mobile Video Coalition) and offering a complete high reliability end-to-end solution.



2010s

- **Screen Service founds Skylinks**, a newco with a long background of experiences in High Capacity Microwave Systems. Its product portfolio covers the broadcast needs but also telecom, defense, healthcare and many others.

2011s

- Tivuitalia becomes an officially authorized Italian Nationwide Network Operator.

Screen Service Broadcasting Technologies S.p.A.

Screen Service America LLC 100%

Screen Service do Brasil Ltda. 100%

Skylinks s.r.l. 100%

Tivuitalia S.p.A. 100%

Table of Contents

4 SDT ARK-6 DMBT Series

| | | | |
|----------------------------------|----------------------|---|----|
| SDT ARK-6 SERIES. Specifications | | | 4 |
| SDT 200 ARK-6 | 20W ps/2,5W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, | 10 |
| SDT 500 ARK-6 | 50W ps/12W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, | 12 |
| SDT 201 ARK-6 | 400W ps/150W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, | 14 |
| SDT 201 ARK-6 NC | 450W ps/150W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, | 16 |
| SDT 501 ARK-6 Compact | 800W ps/300W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 18 |
| SDT 501 ARK-6 | 1000W ps/350W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 20 |
| SDT 102 ARK-6 | 2000W ps/700W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 22 |
| SDT 202 ARK-6 | 3000W ps/1300W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 24 |
| SDT 502 ARK-6 | 6000W ps/2600W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 26 |
| SDT 532 ARK-6 | 9000W ps/3900W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 28 |
| SDT 103 ARK-6 | 12000W ps/5200W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 30 |
| SDT 123 ARK-6 | 12500W ps/3200W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 32 |
| SDT 133 ARK-6 | 18000W ps/7800W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 34 |
| SDT 203 ARK-6 | 24000W ps/10000W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter | 36 |
| SDT 303 ARK-6 | 36000W ps/15000W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, Liquid Cooled Version | 38 |
| SDT 403 ARK 6 | 48000W ps/20000W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, Liquid Cooled Version | 40 |
| SDT 603 ARK-6 | 72000W ps/30000W rms | Heterodyne Transposer, Regenerative Transmitter, Transmitter, Liquid Cooled Version | 42 |



SDT ARK-6 Series

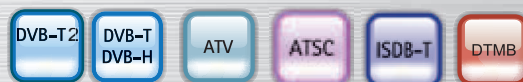


The Multiple Configuration Flexible Hardware Platform

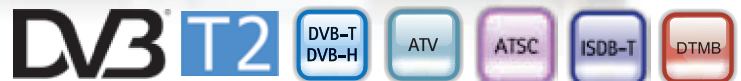
The SDT ARK-6 is a Universal Driver with Multiple Front-End Boards

SDT ARK-6 SERIES. All configurations

Available configurations: Satellite Receiver w DEC w/o CAM, Regenerative Trasmmitter, Analog A/V Input, Transmitter only.



The Universal DRIVER can be customised in 5 different configurations. All, always and easily upgradable to new features.



The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology. We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package. It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due to its versatility in operation modes and configuration. In fact it can be used as a transmitter, an heterodyne transposer, a regenerative transmitter, all in a single hardware. ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery. Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV modulations. The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.

HARDWARE OPTIONS

| Front-End | STANDARD | | | | | |
|------------------------------------|---------------------------------------|--|--|--|--|---|
| | ATV | DVB-T/H | DVB-T2 | ISDBT | ATSC | DMBT |
| None | Transmitter | Transmitter | Transmitter | Transmitter | Transmitter | Transmitter |
| DIGITALIZER AA/ VV Input option | Transmitter with A/V analog inputs | X | X | X | X | X |
| DVB-S/S2 | X | Transmitter with DVB-S/S2 RF input | Transmitter with DVB-S/S2 RF input | Transmitter with DVB-S/S2 RF input | Transmitter with DVB-S/S2 RF input | Transmitter with DVB-S/S2 RF input |
| DVB-S/S2 + CAM | X | Transmitter with DVB-S/S2 RF input (with CAM) | Transmitter with DVB-S/S2 RF input (with CAM) | Transmitter with DVB-S/S2 RF input (with CAM) | Transmitter with DVB-S/S2 RF input (with CAM) | Transmitter with DVB-S/S2 RF input (with CAM) |
| DVB-T/T2 | X | Regenerative Tran- sposer / Heterodyne Transposer / GF Echo Canceller | Regenerative Tran- sposer / Heterodyne Transposer / GF Echo Canceller | X | X | X |
| ISDBT | X | X | X | Regenerative Tran- sposer / Heterodyne Transposer / GF Echo Canceller | X | X |
| ATSC | X | X | X | X | Regenerative Tran- sposer / Heterodyne Transposer / GF Echo Canceller | X |





Front View. Transmitter with Satellite Receiver

1. DVB-S2 Input Configuration – Satellite Input Specifications

- N. SAT Inputs: 1
- Demodulator: STV-0900AAB
- Connector type: F Female
- Input impedance: 75 ohm
- Input level: -81 dB up to -17 dB
- Supported symbol rates: 1 to 45 Msymb/s (DVB-S) / 1 to 67.5 (DVB-S2 depending on modulation scheme).
- DiSEqC: 2.0
- TS interface: broadcast reception and ISI filtering supported.
- Supported standards: ETSI EN 302 307 V1.1.1 (DVB-S2)
- DVB-T/T2 available



Front View. Transmitter with Satellite Receiver with DEC and CAM

2. DVB-S2 Input with DEC and CAM Configuration – Satellite and CAM Specifications

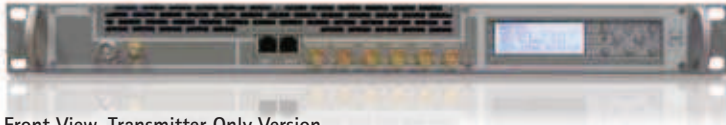
- N. GPS Inputs: 1
- Demodulator: STV-0900AAB
- Connector type: F Female
- Input impedance: 75 ohm
- Input level: -81 dB up to -17 dB
- Supported symbol rates: 1 to 45 Msymb/s (DVB-S) / 1 to 67.5 (DVB-S2 depending on modulation scheme).
- DiSEqC: 2.0
- TS interface: broadcast reception and ISI filtering supported.
- Common Interface:
- N° card slots: 1
- Type: PCMCIA
- Supported CAM:
- Supported standards: ETSI EN 302 307 V1.1.1 (DVB-S2)
- DVB-T/T2, ITU available



Front View. Transposer and Regenerative Transmitter

3. DVB-T/T2 Transposer and Regenerative Transmitter Configuration – Terrestrial RF IN Specifications

- N. RF Inputs: 1
- Demodulator: Sony CX02820R
- Connector type: N Female
- Input impedance: 50 ohm
- Input level: -81 dB up to -17 dB
- Supported standards: DVB-T/H, DVB-T2
- DVB-T/T2 available



Front View. Transmitter Only Version

4. DVB-T/T2 Configuration

- Inputs: 4 ASI and 2 TSolP channels
- Output: 1 RF, 1 RF Monitor
2 ASI and 2 TSolP channels for inputs bypass
- Synchronization: External or GPS
- Internal clock: Oven Controlled OCXO oscillator (10 MHz and 1 PPS)
- Output clock: 1 PPS and 10 MHz
- Test modes: CW, Force Null Packets and PRBS
- Management: Embedded SNMP v1 server
Embedded Web server
- GbE Ports: GbE 1: 10/100/1000 Base T Management port
GbE 2: 10/100/1000 Base T Data port
- Redundancy: Input autoswitch algorithm supported
- Security: Authentication for GUI access supported
- Configuration: Automatic loading of preset configurations supported.
Automatic retrieving of configuration data from the RF input supported.
- DVB-T/T2 available



Front View. Transmitter with Analog A/V Inputs

5. Digitizer with Analog A/V Inputs Configuration – A/V Specifications

- N. CVBS inputs: 2
- Video digitizer: Texas Instruments TVP5146
- Connector type: BNC
- Input impedance: 75 ohm
- Supported video standards: PAL B,D,G,H,I,M,N, NTSC
- Analog audio input
- N°Inputs: 2 L/R couples
- Connector type: XLR3 (Cannon f)
- Input impedance: 600 Ohm balanced
- Input Level: +6dBm +/- 6 dB
- Supported standards: EIA RF-297-A
ITU available
- Inputs: 4 SDI, 2 CVBS and 2 L/R
- Supported Composite Standards: NTSC CVBS, PAL (B, D, G, H, I, M, N) CVBS
- Supported SDI Standard: SMPTE 259M-C – Component 4:2:2, 270Mb/s for 525 and 625 lines, 13.5 MHz sampling, 4x3 and 16x9 aspect ratios.
- Outputs: 1 RF, 1 RF Monitor
2 SDI for inputs bypass
- Synchronization: External or GPS
- Internal clock: Oven Controlled OCXO oscillator (10 MHz and 1 PPS)
- Output clock: 1 PPS and 10 MHz
- Test modes: CW, CW AV, Mute Audio Carrier, Mute Audio, Audio Test Tone, Video In, SMPTE Bars, Horizontal Bars, Red Field, ITS0, ITS1, ITS2, ITS3 and ITS4.
- Management: Embedded SNMP v1 server
Embedded Web server
- GbE Ports: GbE 1: 10/100/1000 Base T Management port
- Redundancy: Input autoswitch algorithm supported
- Security: Authentication for GUI access supported.

Hardware Specifications

| TYPE: | DESCRIPTION AND NUMBER: |
|-------------------------|---|
| ASI/SSI/SDI Input | Connectors used as ASI, SMPTE-310 or SDI: N° Inputs: 4 Connector type: BNC Input impedance: 75 ohm Input voltage: 800 mVpp (500 to 1200mVpp) Supported standards: CEI EN 50083-9 SMPTE 310 SMPTE 259M |
| PS RF Input | N° Inputs: 1 Sensitivity: -185dBW Connectors: TNC |
| 10 MHz Input | N° Inputs: 1 Connector: BNC Input impedance: 50 ohm Input voltage: 2 Vpp |
| 1PPS Input | N° Inputs: 1 Connector: BNC Input impedance: 50 ohm Input voltage: TTL (min 1,7V) Pulse width: 100us |
| ASI Output Monitor | Connectors used for monitoring purposes: N° outputs: 2 Connector type: BNC Input impedance: 75 ohm Input voltage: 800 mVpp (500 to 1200mVpp) Supported standards: CEI EN 50083-9 |
| 10 MHz Output | N° outputs: 1 Connector: SMB Output impedance: 50 ohm Output voltage: 2 Vpp |
| 1PPS Output | N° Outputs: 1 Connector: SMB Z load: 50 ohm Output voltage: TTL (min 2,4V) Pulse width: 100us |
| Gigabit Ethernet | N° connectors: 2 Connector: RJ45 Supported standards: IEEE 802.3 |
| Relays | N° outputs: 4 Connectors: SUB-D 25p Female Max voltage: 125VAC / 60VDC @ 0,3A - 30VDC @ 1A |
| Opto | N° inputs: 4 Connectors: SUB-D 25p Female Max current: -5 mA |
| RF Front-End input | Please refer to various configurations for a complete description of all the available Front-end modules |
| RF Measure board inputs | N° Inputs: 1 Connector type: Input impedance: 50 ohm Input level: -40 dB up to -8.5 dB Supported standards: DVB-T/H ISDB-T ATSC DVB-T2 |
| DB9 – RS232 | N° inputs: 1 Speed: up to 230400 bps 8-bit data No parity bits 1 stop bit |
| DB9 – RS485 CAM BUS | N° inputs: 1 |
| DB15 – TLC | N° inputs: 1 |
| DB25 – TLS | N° inputs: 1 |

| Specifications | | |
|--|------------------------------|---|
| Frequency range | UHF (Band IV/V) | 470 to 862 MHz, in 1 Hz Step |
| | VHF (Band III) | 170 to 255 MHz, in 1 Hz Step |
| Available standards (all standars are full compliant) | Digital TV | DVB-T, DVB-T2, DVB-H, ISDB-Tb, ATSC, ATSC Mobile DTV,DTMB |
| | Digital Audio Broadcasting | DAB,DAB+,T-DMB |
| | Analog TV | B/G, D/K, M, M1, N, I, I1 |
| Power Supply | AC Line Voltage | 380 to 415 (3 phases), 208 to 240 Delta or Star ; 47 Hz to 63 Hz To be specify at order |
| | AC Line variations | +/- 15% |
| | Power factor | ≥ 0,98 |
| Environmental Conditions | Altitude | 2500 m above sea level (> 2500 m on request) |
| | Operating temperature range | -10 °C to +45 °C at sea level, upper limit derated of 2 °C per 300 m Above Mean Sea Level |
| | Relative humidity | 95 %, not-condensing |
| | Cooling method | Forced Air / liquid with external heat exchanger with redounded fan |
| RF output | Output power variation range | +0,5 to -10 dB |
| | RF load impedance | 50 Ohm |
| | VSWR | Power reduction after exceeding the set value or switch off after three attempts |
| | RF Output connector | See Specific Data Sheet |
| Transmitter size | Rack Unit | See Model Specific Data Sheet |
| | Weight | |
| | Dimension | |
| Synchronization | Reference frequency | 10 MHz, 0.1 V to 5 V (Vpp) or TTL, BNC |
| | Reference pulse | 1pps (1 Hz, TTL, BNC) |
| Operations Control and Monitoring | Remote | Web based Java Interface |
| | | SNMP |
| | | Telnet access via ethernet |
| | Local | Extensive front panel control Local terminal on RS232 |
| Compliance and Conformity | RoHS | 2002/95/EC |
| | R&TTE | 1999/5/EC |
| | Safety | EN 60215 |
| | EMC | EN 301-4891-1 |
| | FCC | Part 73 |
| | WEEE | 2002/96/EC |
| Manufacturing | ISO 9001:2008 | |

Specifications are subject to change without notice



SDT SERIES ARK-6 DTMB + ATV

Models Selection Guide

| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ Fo ± 4.3 MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV |
|----------------------|-------------|---------------|-------------------------|---------|--------------|------------------|---------|----------------|--------------------------|--|--|
| SDT 000UA ARK-6-HE | UHF | A | 1 RU (19" rack), 400 mm | | | N | Air | - | -37 | 1mW | 1mW |
| SDT 200UA ARK-6 | UHF | A | 1 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 2,5 W | 80 W |
| SDT 200TB ARK-6 | VHF (III) | A | 1 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 2,5 W | 80 W |
| SDT 500UB ARK-6 | UHF | AB | 1 RU (19" rack), 400 mm | 1 | SCA500UB | N | Air | - | -36 | 12 W | 50 W |
| SDT 500TB ARK-6 | VHF (III) | AB | 1 RU (19" rack), 400 mm | 1 | SCA500TB | N | Air | - | -36 | 12 W | 50 W |
| SDT 201UB ARK-6 HE C | UHF | AB | 2 RU (19" rack), 400 mm | 1 | | N | Air | - | -39 | 150 W | 400 W |
| SDT 201UB ARK-6 C | VHF (III) | AB | 2 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 80 W | 250 W |
| SDT 201UB ARK-6 HE | UHF | AB | 1+3 RU | 1 | | N | Air | - | -39 | 150 W | 450 W |
| SDT 201UB ARK-6 | UHF | AB | 1+3 RU | 1 | | N | Air | - | -36 | 80 W | 250 W |
| SDT 201TB ARK-6 | VHF (III) | AB | 1+3 RU | 1 | | N | Air | - | -36 | 80 W | 250 W |
| SDT 501UB ARK-6 HE C | UHF | AB | 3 RU | 1 | | 7/16 | Air | - | -39 | 300 W | 800 W |
| SDT 501UB ARK-6 C | UHF | AB | 3 RU | 1 | | 7/16 | Air | - | -36 | 150 W | 700 W |
| SDT 501TB ARK-6 C | VHF (III) | AB | 3 RU | 1 | | 7/16 | Air | - | -36 | 150 W | 700 W |
| SDT 501UB ARK-6 HE | UHF | AB | 15 RU (4+1) | 1 | SCA501 | 7/8 | Air | - | -39 | 350 W | 1000 W |
| SDT 501UB ARK-6 | UHF | AB | 15 RU (4+1) | 1 | SCA501 | 7/8 | Air | - | -36 | 150 W | 700 W |
| SDT 501TB ARK-6 | VHF (III) | AB | 15 RU (4+1) | 1 | SCA501 | 7/8 | Air | - | -36 | 150 W | 700 W |
| SDT 102UB ARK-6 HE | UHF | AB | 1+5 RU | 1 | SCA102HE | 7/16 | Air | - | -39 | 700 W | 2000 W |
| SDT 102UM ARK-6 HE | UHF | AB | 30 RU | 2 | SDT501HE | 7/16 | Air | - | -39 | 700 W | 2000 W |
| SDT 102UB ARK-6 | UHF | AB | 1+5 RU | 1 | SCA102UB | 7/16 | Air | - | -36 | 300 W | 1400 W |
| SDT 102UM ARK-6 | UHF | AB | 30RU | 2 | SCA501UB | 7/16 | Air | - | -36 | 300 W | 1400 W |
| SDT 102TB ARK-6 | VHF (III) | AB | 1+5 RU | 1 | SCA102TB | 7/16 | Air | - | -36 | 300 W | 1400 W |
| SDT 102TM ARK-6 | VHF (III) | AB | 30 RU | 2 | SCA501TB | 7/16 | Air | - | -36 | 300 W | 1400 W |
| SDT 202UB ARK-6 HE | UHF | AB | 1+5 RU | 1 | SCA202HE | 7/8 | Air | - | -39 | 1300 W | 3000 W |
| SDT 202UM ARK-6 HE | UHF | AB | 30 RU | 2 | SCA202HE | 7/8 | Air | - | -39 | 1300 W | 3000 W |
| SDT 202UB ARK-6 | UHF | AB | 1+5 RU | 1 | SCA202UB | 7/8 | Air | - | -36 | 700 W | 2800 W |
| SDT 202UM ARK-6 | UHF | AB | 30RU | 2 | SCA202UB | 7/8 | Air | - | -36 | 700 W | 2800 W |
| SDT 202TB ARK-6 | VHF (III) | AB | 1+5 RU | 1 | SCA202TB | 7/8 | Air | - | -36 | 700 W | 2800 W |
| SDT 202TM ARK-6 | VHF (III) | AB | 30 RU | 2 | SCA202TB | 7/8 | Air | - | -36 | 700 W | 2800 W |
| SDT 502UB ARK-6 HE | UHF | AB | 30 RU | 2 | SCA202HE | 7/8 | Air | 1 | -39 | 2600 W | 6000 W |
| SDT 502UM ARK-6 HE | UHF | AB | 40 RU | 4 | SCA102HE | 7/8 | Air | 1 | -39 | 2600 W | 6000 W |
| SDT 502UB-W ARK-6 HE | UHF | AB | 40 RU | 2 | SCA202HE-W | 7/8 | Liquid | 1 | -39 | 2600 W | 6000 W |
| SDT502UB ARK-6 | UHF | AB | 30 RU | 2 | SCA202UB | 7/8 | Air | 1 | -36 | 1300 W | 5000 W |
| SDT502UB-W ARK-6 | UHF | AB | 40 RU | 2 | SCA202UB-W | 7/8 | Liquid | 1 | -36 | 1300 W | 5000 W |
| SDT 502UM ARK-6 | UHF | AB | 40 RU | 4 | SCA102UB | 7/8 | Air | 1 | -36 | 1300 W | 5000 W |
| SDT 502TB ARK-6 | VHF (III) | AB | 30 RU | 2 | SCA202TB | 7/8 | Air | 1 | -36 | 1300 W | 5000 W |
| SDT 502TB-W ARK-6 | VHF (III) | AB | 40 RU | 2 | SCA202TB-W | 7/8 | Liquid | 1 | -36 | 1300 W | 5000 W |
| SDT 502TM ARK-6 | VHF (III) | AB | 40 RU | 4 | SCA102TB | 7/8 | Air | 1 | -36 | 1300 W | 5000 W |
| SDT 532UB-W ARK-6 HE | UHF | AB | 40 RU | 3 | SCA202HE-W | 7/8 | Liquid | 1 | -39 | 3900 W | 9000 W |
| SDT 532UB-W ARK-6 | UHF | AB | 40 RU | 3 | SCA202UB-W | 7/8 | Liquid | 1 | -36 | 2000 W | 7500 W |
| SDT 532TB-W ARK-6 | VHF (III) | AB | 40 RU | 3 | SCA202TB-W | 7/8 | Liquid | 1 | -36 | 2000 W | 7500 W |
| SDT 103UM ARK-6 HE | UHF | AB | 40 RU | 4 | SCA202HE | 7/8 | Air | 1 | -39 | 5200 W | 12000 W |
| SDT 103UM-W ARK-6 HE | UHF | AB | 40 RU | 4 | SCA202HE | 7/8 | Liquid | 1 | -39 | 5200 W | 12000 W |
| SDT 103UM ARK-6 | UHF | AB | 40 RU | 4 | SCA202UB | 7/8 | Air | 1 | -36 | 2600 W | 10000 W |
| SDT 103UM-W ARK-6 | UHF | AB | 40 RU | 4 | SCA202UB-W | 7/8 | Liquid | 1 | -36 | 2600 W | 10000 W |
| SDT 103TM ARK-6 | VHF (III) | AB | 40 RU | 4 | SCA202TB | 7/8 | Air | 1 | -36 | 2600 W | 10000 W |
| SDT 103TM-W ARK-6 | VHF (III) | AB | 40 RU | 4 | SCA202TB-W | 7/8 | Liquid | 1 | -36 | 2600 W | 10000 W |
| SDT 123UM-W ARK-6 | UHF | AB | 40 RU | 5 | SCA202UB-W | 7/8 | Liquid | 1 | -36 | 3200 W | 12500 W |
| SDT 123TM-W ARK-6 | VHF (III) | AB | 40 RU | 5 | SCA202TB-W | 7/8 | Liquid | 1 | -36 | 3200 W | 12500 W |
| SDT 133UM-W ARK-6 HE | UHF | AB | 2 x 40 RU | 6 | SCA202HE-W | 7/8 | Liquid | 1 | -39 | 7800 W | 18000 W |
| SDT 133UM-W ARK-6 | UHF | AB | 2 x 40 RU | 6 | SCA202UB-W | 7/8 | Liquid | 1 | -36 | 6000 W | 16000 W |
| SDT 133TM-W ARK-6 | VHF (III) | AB | 2 x 40 RU | 6 | SCA202TB-W | 7/8 | Liquid | 1 | -36 | 6000 W | 16000 W |
| SDT 203UM ARK-6 HE | UHF | AB | 2 x 40 RU | 8 | SCA202HE | 7/8 | Air | 2 | -39 | 10000 W | 24000 W |
| SDT 203UM-W ARK-6 HE | UHF | AB | 2 x 40 RU | 8 | SCA202HE | 7/8 | Liquid | 2 | -39 | 10000 W | 24000 W |
| SDT 203UM ARK-6 | UHF | AB | 2 x 40 RU | 8 | SCA202UB | 7/8 | Air | 2 | -36 | 5000 W | 20000 W |
| SDT 203UM-W ARK-6 | UHF | AB | 2 x 40 RU | 8 | SCA202UB-W | 7/8 | Liquid | 2 | -36 | 5000 W | 20000 W |
| SDT 203TM ARK-6 | VHF (III) | AB | 2 x 40 RU | 8 | SCA202TB | 7/8 | Air | 2 | -36 | 5000 W | 20000 W |
| SDT 203TM-W ARK-6 | VHF (III) | AB | 2 x 40 RU | 8 | SCA202TB-W | 7/8 | Liquid | 2 | -36 | 5000 W | 20000 W |
| SDT 303UM-W ARK-6 HE | UHF | AB | 3 X 40 RU | 12 | SCA202HE-W | 7/8 | Liquid | 4 | -39 | 15000 W | 36000 W |
| SDT 303UM-W ARK-6 | UHF | AB | 3 X 40 RU | 12 | SCA202UB-W | 7/8 | Liquid | 4 | -36 | 7800 W | 32000 W |
| SDT 303TM-W ARK-6 | VHF (III) | AB | 3 X 40 RU | 12 | SCA202TB-W | 7/8 | Liquid | 4 | -36 | 7800 W | 32000 W |
| SDT 403UM-W ARK-6 HE | UHF | AB | 4 X 40 RU | 16 | SCA202HE-W | 7/8 | Liquid | 4 | -39 | 20000 W | 48000 W |
| SDT 403UM-W ARK-6 | UHF | AB | 4 X 40 RU | 16 | SCA202UB-W | 7/8 | Liquid | 4 | -36 | 10000 W | 40000 W |
| SDT 403TM-W ARK-6 | VHF (III) | AB | 4 X 40 RU | 16 | SCA202TB-W | 7/8 | Liquid | 4 | -36 | 10000 W | 40000 W |
| SDT 603UM-W ARK-6 HE | UHF | AB | 6 X 40 RU | 24 | SCA202HE-W | 7/8 | Liquid | 6 | -39 | 30000 W | 72000 W |
| SDT 603UM-W ARK-6 | UHF | AB | 6 X 40 RU | 24 | SCA202UB-W | 7/8 | Liquid | 6 | -36 | 15000 W | 64000 W |
| SDT 603TM-W ARK-6 | VHF (III) | AB | 6 X 40 RU | 24 | SCA202TB-W | 7/8 | Liquid | 6 | -36 | 15000 W | 64000 W |

Specifications and characteristics are subject to change without notice.

DTMB Transmitter/modulator up to 1mW rms



> SDT 000 ARK-DTMB

Description

The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology.

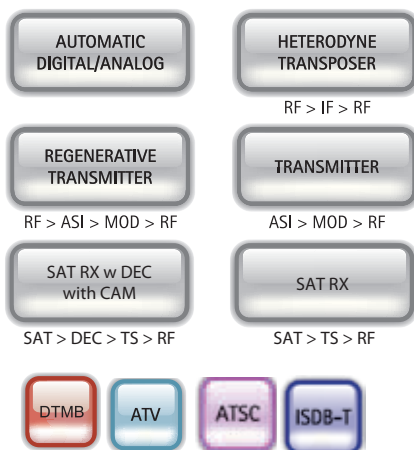
We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package.

It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due for its versatility in operation modes and configuration. In fact it can be used as a transmitter, a heterodyne transposer, a regenerative transmitter, all in a single hardware.

ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery.

Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV, DAB modulations.

The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.



Main Features

- Frequency: VHF, UHF
- Modulation: COFDM/single carrier
- Sub-carrier Modulation: 4QAM, 4QAM-NR, 16QAM, 32QAM, 64QAM
- Bandwidth: 6MHz, 7 MHz, 8 MHz
- Video Source Coding: MPEG2, H.264

Option Features

- Based on Software Defined Technology (SWDT), ARK6 Modulator allows the definition of different operative modes on the same hardware platform.

SDT SERIES ARK-6 DTMB + ATV

The New SDT ARK-6 SERIES is available in different hardware configurations.



Front View. Transposer and Transmitter Version



Front View. Version with Analog Audio/Video Input



Front View. Transmitter with DVB-S2 Receiver Version



Front View. Transmitter with DVB-S2 Receiver Version with CAM

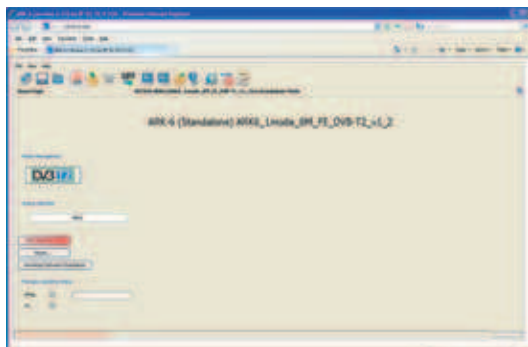


Front View. Transmitter Version

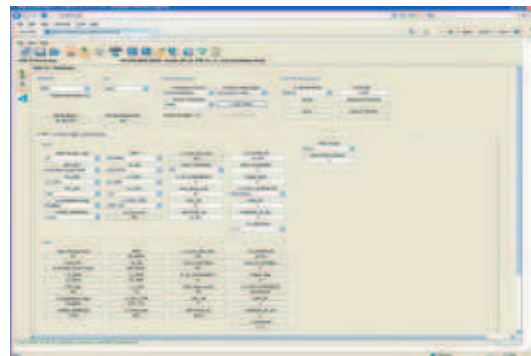
| General Specifications | |
|-------------------------------|--|
| Cooling System | Forced air/liquid cooling |
| Local control and monitoring | Extensive front panel control Local terminal on RS-232 |
| Remote control and monitoring | Web based Java Interface Telnet access via Ethernet SNMP |
| Operating Temperature | -10°C to +45°C |
| Maximum relative humidity | 90%, non condensing |
| Maximum operating altitude | 2500 m a.s.l. (> 2500 m on request) |
| Mains power supply | 90-260 V AC |

| MODEL SPECIFIC DATA | | | | | | | | | | | |
|---------------------|-------------|---------------|-------------------------|---------|--------------|------------------|---------|----------------|-------------------------------|--|--|
| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ $F_o \pm 4.3$ MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV |
| SDT000UA ARK-6 | UHF | A | 1 RU (19" rack), 400 mm | | | N | Air | - | -37 | 1mW | 1mW |

Specifications and characteristics are subject to change without notice.



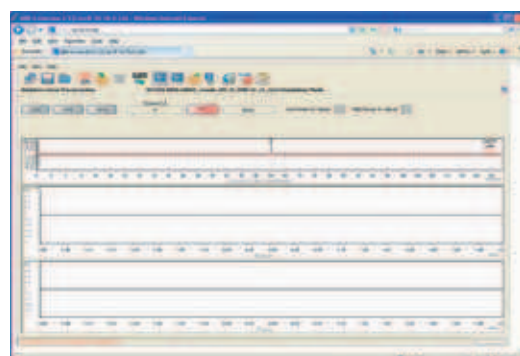
GUI, modulation page.



GUI, main page.

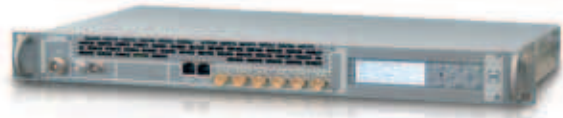


GUI, input page.



GUI, linear pre correction page.

Heterodyne Transposer, Regenerative Transmitter, Transmitter 20W ps/2,5W rms



> SDT 200 ARK-6

Description

The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology.

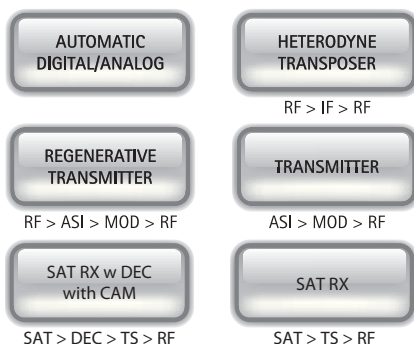
We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package.

It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due for its versatility in operation modes and configuration. In fact it can be used as a transmitter, a heterodyne transposer, a regenerative transmitter, all in a single hardware.

ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery.

Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV, DAB modulations.

The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.



Main Features

- Frequency: VHF, UHF
- Modulation: COFDM/single carrier
- Sub-carrier Modulation: 4QAM, 4QAM-NR, 16QAM, 32QAM, 64QAM
- Bandwidth: 6MHz, 7 MHz, 8 MHz
- Video Source Coding: MPEG2, H.264

Option Features

- Based on Software Defined Technology (SWDT), ARK6 Modulator allows the definition of different operative modes on the same hardware platform.

SDT SERIES ARK-6 DTMB + ATV

The New SDT ARK-6 SERIES is available in different hardware configurations.



Front View. Transposer and Transmitter Version



Front View. Version with Analog Audio/Video Input



Front View. Transmitter with DVB-S2 Receiver Version



Front View. Transmitter with DVB-S2 Receiver Version with CAM

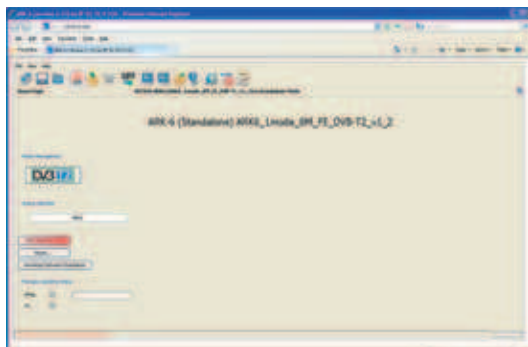


Front View. Transmitter Version

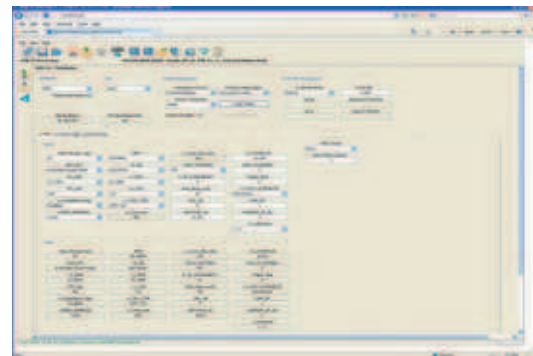
| General Specifications | |
|-------------------------------|--|
| Cooling System | Forced air/liquid cooling |
| Local control and monitoring | Extensive front panel control Local terminal on RS-232 |
| Remote control and monitoring | Web based Java Interface Telnet access via Ethernet SNMP |
| Operating Temperature | -10°C to +45°C |
| Maximum relative humidity | 90%, non condensing |
| Maximum operating altitude | 2500 m a.s.l. (> 2500 m on request) |
| Mains power supply | 90-260 V AC |

| MODEL SPECIFIC DATA | | | | | | | | | | | | |
|---------------------|-------------|---------------|-------------------------|---------|--------------|------------------|---------|----------------|-------------------------------|--|--|--|
| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ $F_o \pm 4.3$ MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV | |
| SDT 200UA ARK-6 | UHF | A | 1 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 2,5 W | 80 W | |
| SDT 200TB ARK-6 | VHF (III) | A | 1 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 2,5 W | 80 W | |

Specifications and characteristics are subject to change without notice.



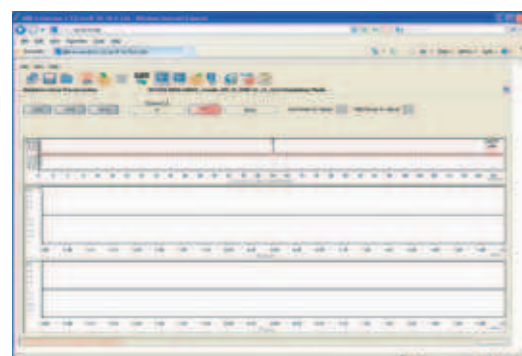
GUI, modulation page.



GUI, main page.



GUI, input page.



GUI, linear pre correction page.

Heterodyne Transposer, Regenerative Transmitter, Transmitter 50W ps/12W rms



> SDT 500 ARK-6

Description

The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology.

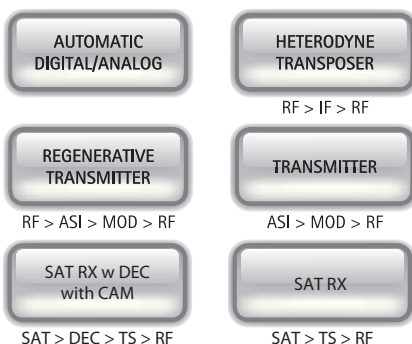
We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package.

It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due for its versatility in operation modes and configuration. In fact it can be used as a transmitter, a heterodyne transposer, a regenerative transmitter, all in a single hardware.

ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery.

Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV, DAB modulations.

The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.



Main Features

- Frequency: VHF, UHF
- Modulation: COFDM/single carrier
- Sub-carrier Modulation: 4QAM, 4QAM-NR, 16QAM, 32QAM, 64QAM
- Bandwidth: 6MHz, 7 MHz, 8 MHz
- Video Source Coding: MPEG2, H.264

Option Features

- Based on Software Defined Technology (SWDT), ARK6 Modulator allows the definition of different operative modes on the same hardware platform.

SDT SERIES ARK-6 DTMB + ATV

The New SDT ARK-6 SERIES is available in different hardware configurations.



Front View. Transposer and Transmitter Version



Front View. Version with Analog Audio/Video Input



Front View. Transmitter with DVB-S2 Receiver Version



Front View. Transmitter with DVB-S2 Receiver Version with CAM

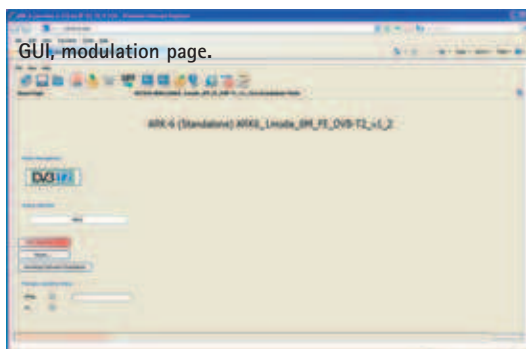


Front View. Transmitter Version

| General Specifications | |
|-------------------------------|--|
| Cooling System | Forced air/liquid cooling |
| Local control and monitoring | Extensive front panel control Local terminal on RS-232 |
| Remote control and monitoring | Web based Java Interface Telnet access via Ethernet SNMP |
| Operating Temperature | -10°C to +45°C |
| Maximum relative humidity | 90%, non condensing |
| Maximum operating altitude | 2500 m a.s.l. (> 2500 m on request) |
| Mains power supply | 90-260 V AC |

| MODEL SPECIFIC DATA | | | | | | | | | | | | |
|---------------------|-------------|---------------|-------------------------|---------|--------------|------------------|---------|----------------|-------------------------------|--|--|--|
| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ $F_o \pm 4.3$ MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV | |
| SDT 500UB ARK-6 | UHF | AB | 1 RU (19" rack), 400 mm | 1 | SCA500UB | N | Air | - | -36 | 12 W | 50 W | |
| SDT 500TB ARK-6 | VHF (III) | AB | 1 RU (19" rack), 400 mm | 1 | SCA500TB | N | Air | - | -36 | 12 W | 50 W | |

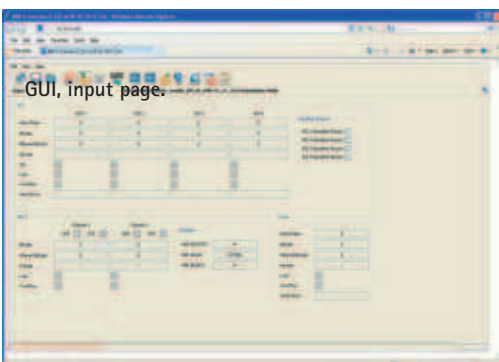
Specifications and characteristics are subject to change without notice.



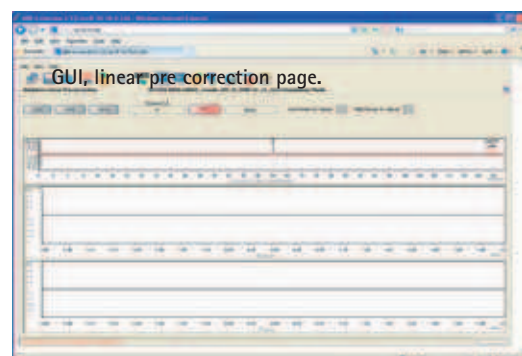
GUI, modulation page.



GUI, main page.



GUI, input page.



GUI, linear pre correction page.

Heterodyne Transposer, Regenerative Transmitter, Transmitter, up to 400W ps/150W rms



> SDT 201 ARK-6

Description

The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology.

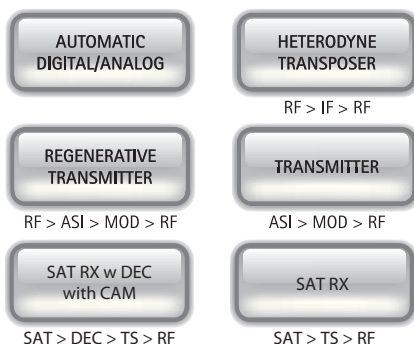
We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package.

It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due for its versatility in operation modes and configuration. In fact it can be used as a transmitter, a heterodyne transposer, a regenerative transmitter, all in a single hardware.

ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery.

Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV, DAB modulations.

The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.



Main Features

- Frequency: VHF, UHF
- Modulation: COFDM/single carrier
- Sub-carrier Modulation: 4QAM, 4QAM-NR, 16QAM, 32QAM, 64QAM
- Bandwidth: 6MHz, 7 MHz, 8 MHz
- Video Source Coding: MPEG2, H.264

Option Features

- Based on Software Defined Technology (SWDT), ARK6 Modulator allows the definition of different operative modes on the same hardware platform.



SDT SERIES ARK-6 DTMB + ATV

The New SDT ARK-6 SERIES is available in different hardware configurations.



Front View. Transposer and Transmitter Version



Front View. Version with Analog Audio/Video Input



Front View. Transmitter with DVB-S2 Receiver Version



Front View. Transmitter with DVB-S2 Receiver Version with CAM



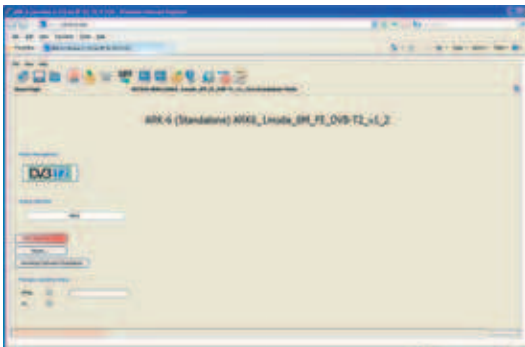
Front View. Transmitter Version

| General Specifications | |
|-------------------------------|--|
| Cooling System | Forced air/liquid cooling |
| Local control and monitoring | Extensive front panel control Local terminal on RS-232 |
| Remote control and monitoring | Web based Java Interface Telnet access via Ethernet SNMP |
| Operating Temperature | -10°C to +45°C |
| Maximum relative humidity | 90%, non condensing |
| Maximum operating altitude | 2500 m a.s.l. (> 2500 m on request) |
| Mains power supply | 90-260 V AC |

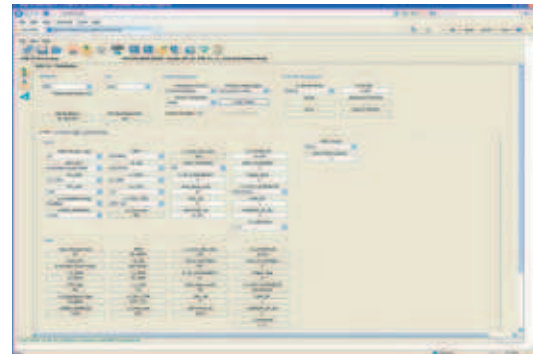
MODEL SPECIFIC DATA

| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ $F_o \pm 4.3$ MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV |
|----------------------|-------------|---------------|-------------------------|---------|--------------|------------------|---------|----------------|-------------------------------|--|--|
| SDT 201UB ARK-6 HE C | UHF | AB | 2 RU (19" rack), 400 mm | 1 | | N | Air | - | -39 | 150 W | 400 W |
| SDT 201UB ARK-6 C | VHF (III) | AB | 2 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 80 W | 250 W |

Specifications and characteristics are subject to change without notice.



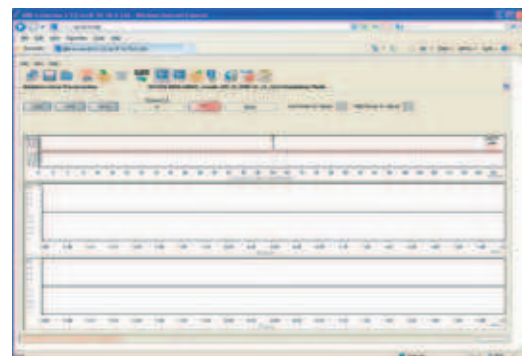
GUI, modulation page.



GUI, main page.



GUI, input page.



GUI, linear pre correction page.

Heterodyne Transposer, Regenerative Transmitter, Transmitter up to 450W ps/150W rms



> SDT 201 ARK-6 NC

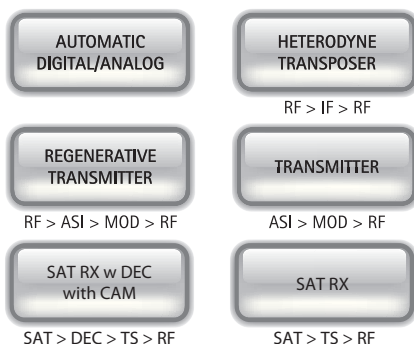
Description

The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology. We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package.

It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due for its versatility in operation modes and configuration. In fact it can be used as a transmitter, a heterodyne transposer, a regenerative transmitter, all in a single hardware.

ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery. Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV, DAB modulations.

The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.



Main Features

- Frequency: VHF, UHF
- Modulation: COFDM/single carrier
- Sub-carrier Modulation: 4QAM, 4QAM-NR, 16QAM, 32QAM, 64QAM
- Bandwidth: 6MHz, 7 MHz, 8 MHz
- Video Source Coding: MPEG2, H.264

Option Features

- Based on Software Defined Technology (SWDT), ARK6 Modulator allows the definition of different operative modes on the same hardware platform.

SDT SERIES ARK-6 DTMB + ATV

The New SDT ARK-6 SERIES is available in different hardware configurations.



Front View. Transposer and Transmitter Version



Front View. Version with Analog Audio/Video Input



Front View. Transmitter with DVB-S2 Receiver Version



Front View. Transmitter with DVB-S2 Receiver Version with CAM



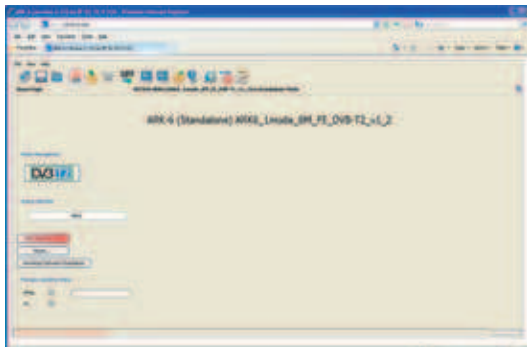
Front View. Transmitter Version

| General Specifications | |
|-------------------------------|--|
| Cooling System | Forced air/liquid cooling |
| Local control and monitoring | Extensive front panel control Local terminal on RS-232 |
| Remote control and monitoring | Web based Java Interface Telnet access via Ethernet SNMP |
| Operating Temperature | -10°C to +45°C |
| Maximum relative humidity | 90%, non condensing |
| Maximum operating altitude | 2500 m a.s.l. (> 2500 m on request) |
| Mains power supply | 90-260 V AC |

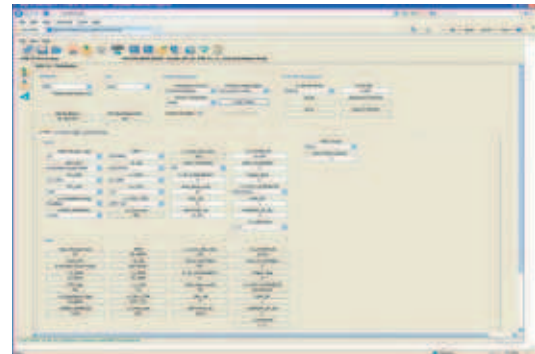
MODEL SPECIFIC DATA

| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ Fo ± 4.3 MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV |
|--------------------|-------------|---------------|-----------------------------|---------|--------------|------------------|---------|----------------|--------------------------|--|--|
| SDT 201UB ARK-6 HE | UHF | AB | 1 + 3 RU (19" rack), 400 mm | 1 | | N | Air | - | -39 | 150 W | 450 W |
| SDT 201UB ARK-6 | UHF | AB | 1 + 3 RU (19" rack), 400 mm | 1 | | N | Air | - | -36 | 80 W | 250 W |
| SDT 201TB ARK-6 | VHF (III) | AB | 1 + 3 RU (19" rack), 400 mm | 1 | | N | Air | | -36 | 80 W | 250 W |

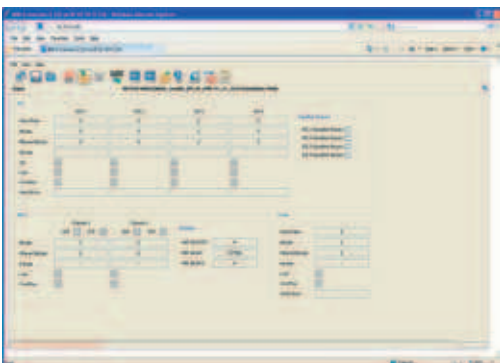
Specifications and characteristics are subject to change without notice.



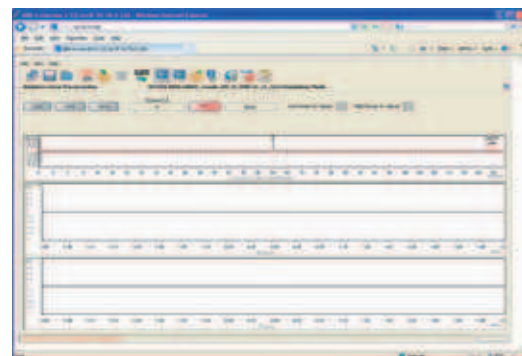
GUI, modulation page.



GUI, main page.



GUI, input page.



GUI, linear pre correction page.

Heterodyne Transposer, Regenerative Transmitter, Transmitter up to 800W ps/300W rms



> SDT 501 ARK-6

Description

The New SDT ARK-6 Series is the result of years of research and represents the state of the art of the worldwide transmitter technology.

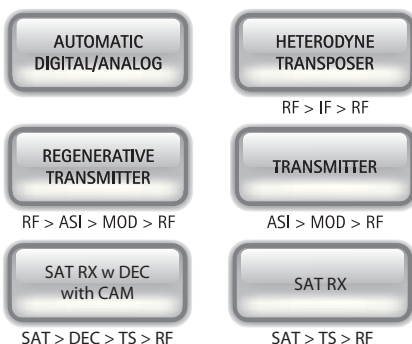
We call it UNIVERSAL DRIVER because of its incredible capability to be all configurations with one hardware and uploading a proper software package.

It is perfect for both international broadcasters which have business in several countries – to increase manageability of investment through reduction of transmitter types – and national broadcasters, due for its versatility in operation modes and configuration. In fact it can be used as a transmitter, a heterodyne transposer, a regenerative transmitter, all in a single hardware.

ARK-6 UNIVERSAL DRIVER is resilient to future evolutions of technology and standardization: this DRIVER guarantees a perfect upgrade path for new modulation schemes that the researchers will delivery.

Besides ARK-6 UNIVERSAL DRIVER already implements DVB-T/T2, ATSC/MH, ISDB-T, DTMB, ATV, DAB modulations.

The SDT ARK-6 allows selection of transmission modes in various ways: remotely, using a dry contact; via SNMP commands; via TCP/IP, using the Web graphic interface; or even via a dedicated command inserted into the transport stream. Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured and updated using a LAN connection and a standard Web browser. More over, the built-in SNMP agent allows full automated remote control.



Main Features

- Frequency: VHF, UHF
- Modulation: COFDM/single carrier
- Sub-carrier Modulation: 4QAM, 4QAM-NR, 16QAM, 32QAM, 64QAM
- Bandwidth: 6MHz, 7 MHz, 8 MHz
- Video Source Coding: MPEG2, H.264

Option Features

- Based on Software Defined Technology (SWDT), ARK6 Modulator allows the definition of different operative modes on the same hardware platform.



SDT SERIES ARK-6 DTMB + ATV

The New SDT ARK-6 SERIES is available in different hardware configurations.



Front View. Transposer and Transmitter Version



Front View. Version with Analog Audio/Video Input



Front View. Transmitter with DVB-S2 Receiver Version



Front View. Transmitter with DVB-S2 Receiver Version with CAM

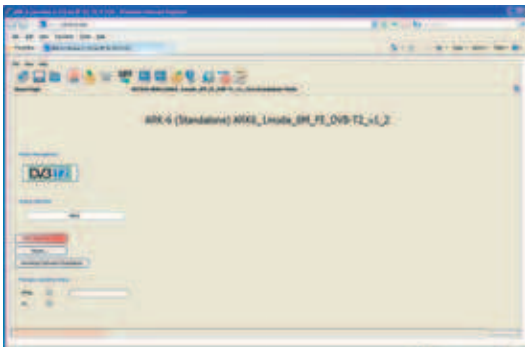


Front View. Transmitter Version

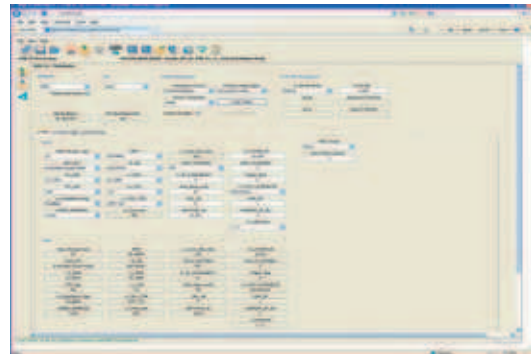
| General Specifications | |
|-------------------------------|--|
| Cooling System | Forced air/liquid cooling |
| Local control and monitoring | Extensive front panel control Local terminal on RS-232 |
| Remote control and monitoring | Web based Java Interface Telnet access via Ethernet SNMP |
| Operating Temperature | -10°C to +45°C |
| Maximum relative humidity | 90%, non condensing |
| Maximum operating altitude | 2500 m a.s.l. (> 2500 m on request) |
| Mains power supply | 90-260 V AC |

| MODEL SPECIFIC DATA | | | | | | | | | | | | |
|----------------------|-------------|---------------|-------------------------|---------|--------------|------------------|---------|----------------|-------------------------------|--|--|--|
| Models | Output Band | Working Class | Dimensions | N. Ampl | kind of Ampl | Output Connector | Cooling | Meter board N. | Shoulders @ $F_o \pm 4.3$ MHz | Digital output power (rms) without Filter DTMB | Nominal analog output power (p.s.) ATV | |
| SDT 501UB ARK-6 HE C | UHF | AB | 3 RU (19" rack), 400 mm | 1 | | 7/16 | Air | - | -39 | 300 W | 800 W | |
| SDT 501UB ARK-6 C | UHF | AB | 3 RU (19" rack), 400 mm | 1 | | 7/16 | Air | - | -36 | 150 W | 700 W | |
| SDT 501TB ARK-6 C | VHF (III) | AB | 3 RU (19" rack), 400 mm | 1 | | 7/16 | Air | - | -36 | 150 W | 700 W | |

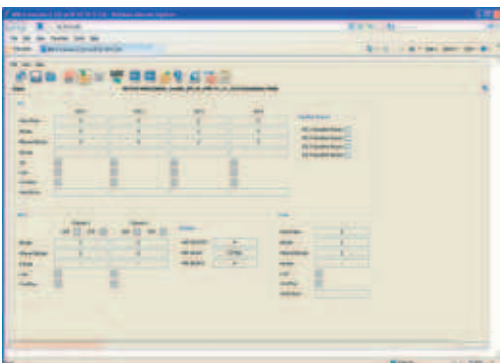
Specifications and characteristics are subject to change without notice.



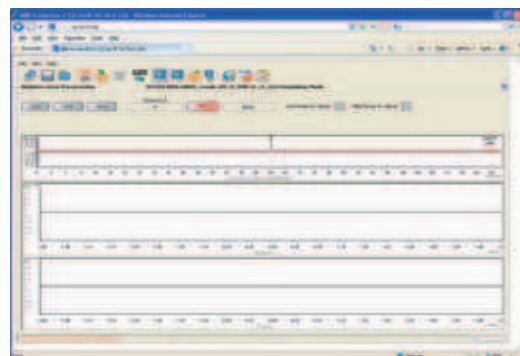
GUI, modulation page.



GUI, main page.



GUI, input page.



GUI, linear pre correction page.