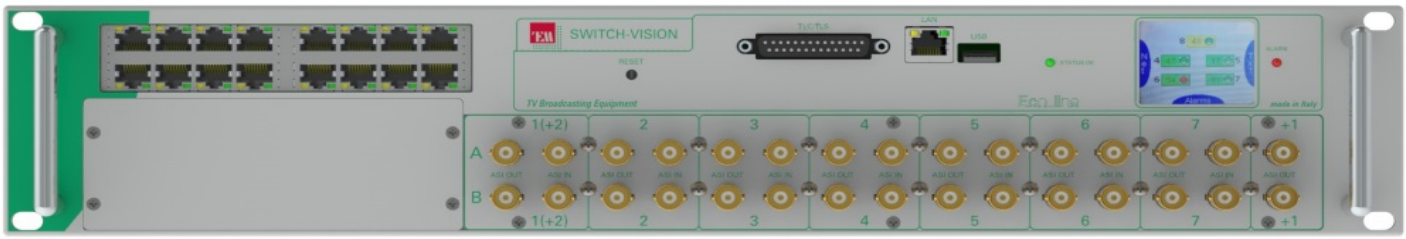
Logica di scambio TV
*TV Switchover Unit*

www.tem-italy.it

# SWITCH-VISION

N+1 or N+2 Switchover unit




**SWITCH-VISION** is the N+1 or N+2 Switchover unit from TEM. In anymain broadcasting station, redundancy is the key to prevent from break of the transmission.

**SWITCH-VISION** has been engineered to bring the maximum reliability for your transmission, by providing redundancy at 4 levels:

**- N+1 or N+2**: Within a single compact 2U or 3U rack, SWITCH-VISION offers to broadcaster the ability to bring N+1 ot N+2 redundancy management, with up to 7+1 or 6+2

**- Input Stage**: Redundancy at the input stage is also offered (in case of separated distribution networks are used), thanks to 2 independent and parallel ASI matrixes or RF switchin matrix or RF passive splitting input circuits implemented in SWITCH-VISION.

**- Power Supply:** SWITCH-VISION does not embed any Power Supply Unit (PSU), as it is capable of using one of the PSUs of the transmitters connected to it.
Therefore, in a 4+1 configuration, SWITCH-VISION divides by 5 the risk of failure.

**- Data Communication**: an IP switch is implemented within SWITCH-VISION for fast and reliable data communication with every transmitter connected.
In case of the IP link fails, a Serial communication link automatically takes the lead.

## MAIN FEATURES

- Compact 2U or 3U 19” Rack chassis
- N+1 or N+2 redundant configuration (with up to 7+1 or 6+2 transmitters)
- Several configurations with different input interfaces:
  - · Double ASI input matrix
  - · RF switching input matrix
  - · RF passive input splitting
  - · Analogue Video and Audio input matrix
- Embedded RF output matrix
- IP or Serial Link data communication
- SNMP, Web Interface and Touch Screen display
- Operation mode: MANUAL or AUTOMATIC

Telecomunicazioni Elettroniche Milano srl
Via Copernico, 11 - 20082 Binasco (MI) - Italy
Tel. +39 02 92270033 - Fax +39 02 99761461
Email sales@tem-italy.it - www.tem-italy.it

# SPECIFICATIONS

## GENERAL

| | |
|---|---|
| **Configuration:** | N+1, N+2, N+1+M+1<br>N<8 Switch-Vision 2U, 2E Series<br>N<5 Switch-Vision 3U, 4000 Series |
| **RF output matrix:** | Integrated, PCB relays system for power up to 80W or 350W rms or<br>External coaxial relays |
| **RF impedance:** | 50 Ohm |
| **RF connectors:** | N (f) up to 80W rms<br>7/16 (f) up to 350W rms<br>According to Coaxial relays (Switch-Vision 2E, 4000 Series) |
| **Input matrix:** | DVB-ASI / BTS / SMPTE-310M or<br>RF switching matrix or<br>RF passive distribution or<br>Analog Video & Audio (optional) |
| **Input connectors:** | BNC (f) 75 Ohm, or N (f) 50 Ohm, or SMA (f) 50 Ohm<br>(according to needed configuration) |
| **Slave management:** | Ethernet 10/100/1000 BaseT<br>RS-485<br>Dry Contact consensus |
| **IP communication:** | Integrated 8 or 16 ports IP Switch |
| **IP connectors:** | RJ-45 |
| **AUX connectors:** | DB-25 |
| **Data logger:** | Integrated with storage of events and alarms |
| **Firmware upgrade:** | via USB port or via Web GUI |

## CONTROLS

| | |
|---|---|
| **Management:** | TFT touchscreen display<br>GUI Java interface<br>SNMP<br>GPIO |

## SERIES 4000 SPECIFIC DATA

| | |
|---|---|
| **Control:** | Local or Remote, Automatic or Manual |
| **Status overview:** | Synoptic, on the front panel |
| **Priority management:** | Fully customizable |
| **Thresholds and retries:** | Fully customizable |
| **Dummy load:** | Internal with possibility to connect any unit of the system<br>(Switch-Vision 4080 and 4350 only) |

## ELECTRICAL

**No power supply integrated.**
**DC supplied through AUX connectors**

## MECHANICAL

| | |
|---|---|
| **Chassis:** | 2U rack 19" (Switch-Vision 2E, 2U, 4000 Series)<br>3U rack 19" (Switch-Vision 3U Series) |
| **Width:** | 483 mm |
| **Depth:** | 350 mm |
| **Height:** | 88,1 mm (Switch-Vision 2E, 2U, 4000 Series)<br>132,5 mm (Switch-Vision 3U Series) |
| **Weight:** | 6 Kg |

## ENVIRONMENTAL

| | |
|---|---|
| **Operating temperature range:** | -5°C ÷ 45°C |
| **Max. relative humidity:** | 90% non condensing |

**Specifications are subject to change without notice.**