OneCompact is an all-in-one transmitter, fully supporting DVB-T/H, DVB-T2, ISDB-T/Tb, DAB/DAB+/T-DMB, ATSC, PAL and NTSC modulations (dual-cast Analog and Digital is also supported), able to provide an output power up to 750W rms or up to 1200W p.s.

OneCompact comes as an ultra compact chassis available in 2U 19” rack or 3U 19” rack, with adaptive pre-correction circuits natively offered and built in GPS / GLONASS receiver for accurate synchronization and SFN operations.

Different input interfaces can be configured (Satellite Receiver, ASI, ETI, EDI, Gigabit Ethernet or RF), which makes OneCompact the perfect flexible platform to cover the different applications of any Digital network (terrestrial or satellite fed transmitter, re-generative repeater, on channel gap-filler, transposer, etc.).

For the South American ISDB-Tb market, OneCompact combines Satellite Receiver, Re-Multiplexer/Layer Combiner/TS to BTS [188 to 204 byte] converter and Transmitter in a single box.
MAIN FEATURES

- Compact 2U 19” Rack chassis or 3U 19” Rack chassis
- Output Power up to 750W rms in digital or up to 1200 W p.s. in analogue
- High efficiency wideband or broadband amplifier technology both in UHF and VHF bands
- DVB-T/H/T2, ISDB-T/Tb, DAB/DAB+/T-DMB, ATSC, PAL, NTSC, NICAM modulations fully supported
- Embedded Re-Multiplexer/Layer Combiner/TS to BTS (188 to 204 byte) converter for ISDB-Tb
- Adaptive pre-correction circuits
- Powerful echo canceller when OneCompact is used as an on-channel repeater
- Optional internal demodulator with equalizer for regenerative transposers
- Equalized Digital On-Channel Repeater (Spectrum Restorer) configuration available
- On-board high stability GPS / GLONASS receiver with battery
- Flexible input interfaces:
  - 4 x ASI inputs [TS, BTS, T2MI, SMPTE-310M] + Analog input
  - 2 x ASI inputs and 2 x Gigabit Ethernet
  - 4 x ETI or 2 x ETI + 2 x EDI inputs
  - 1 x DVB-S/S2 Satellite Receiver input
  - 1 x RF input
- SNMP, Web Interface and Touch Screen display

OneCompact H transmitter dual cast (ASI and analog inputs)
OneCompact R or P transmitter dual cast (ASI and analog inputs)
OneCompact H transmitter IP and ASI (or ETI) inputs
OneCompact R or P transmitter IP and ASI (or ETI) inputs
OneCompact H transposer or Spectrum Restorer (EDOCR)
OneCompact R or P repeater or Spectrum Restorer (EDOCR)
OneCompact H with satellite receiver
OneCompact R or P with satellite receiver
OneCompact H with satellite receiver, IP and ASI (or ETI) inputs
OneCompact R or P with satellite receiver, IP and ASI (or ETI) inputs
**SPECIFICATIONS**

**TRANSMITTERS**

**UHF digital output power:** up to 650 W rms *MER 30 dB typ. (DVB, ISDB)**

**UHF analogue output power:** up to 750 W rms (ATSC)

**VHF Digital output power:** up to 700 W rms *MER 30 dB typ. (DVB, ISDB)**

**VHF analogue output power:** up to 700 W rms (ATSC)

**Code rate:**
- UHF Band A and UHF Band BIII
- 32K & 32K ext. (DVB-T2)

**FFT:**
- Hierarchical and not hierarchical (DVB-T)
- 4x ASI BNC (f), 75 Ohm or 2x ASI BNC (f), 75 Ohm and 2x RAS-TSB 309/2010/000

**Constellation:**
- 2 - 45 Msym/s (DVB-S2)

**Roll–Off:**
- 0.2, 0.25, 0.35

**Input connector:**
- F (f), 75 Ohm

**Frequency:**
- 140 - 1100 MHz (with attenuation)

**Output connector:**
- BNC (f), 75 Ohm

**Modality:**
- 32K, 19/256 (DVB-T2), 19/128 (DVB-T2), 1/256 (DVB-T2), 1/32, 1/16, 1/8, 1/4, 19/256 (DVB-T2), 19/128 (DVB-T2), 1/128 (DVB-T2)

**CAS support:**
- Nagra2, Nagra3, Viaccess, Irdeto, Conax, BISS with Professional multiprogram

**CAS (Conditional Access):**
- Mediatek, Simentsim, Bluechip

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

**MODULATOR**

**DVB-T/-H/-T2**

**Standard:**
- EN301744, EN302364, EN302795 V1.3.1 (DVB-T/-H/-T2), TS1021191, TS102273, TS1028334

**Inputs:**
- 4x ASI BNC (f), 75 Ohm or 4x ASI BNC (f), 75 Ohm and 2x RAS-TSB 309/2010/000

**FFT:**
- Seamless switch between any input

**Guard interval:**
- 1/32, 1/16, 1/8, 1/4, 1/256 (DVB-T2), 1/128 (DVB-T2), 1/128 (DVB-T2)

**Constellation:**
- Supported

**MODS processing:**
- Supported

**DVB-T/-H/-T2 (Option)**

**CAS support:**
- Mediaguard, Viaccess, Irdeto, Conax, BISS with Professional multiprogram

**CAS (Conditional Access):**
- Mediatek, Simentsim, Bluechip

**Specifications are subject to change without notice.**
## UHF BAND IV & V

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTPUT POWER 1</th>
<th>Rack chassis dimensions</th>
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</thead>
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<tr>
<td></td>
<td>COFDM (rms)</td>
<td>ATSC (rms)</td>
</tr>
<tr>
<td></td>
<td>Broadband</td>
<td>Wideband</td>
</tr>
<tr>
<td>ONECOMPACT HUL</td>
<td>200 W</td>
<td>200 W</td>
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<tr>
<td>ONECOMPACT HU</td>
<td>350 W</td>
<td>400 W</td>
</tr>
<tr>
<td>ONECOMPACT RU</td>
<td>350 W</td>
<td>400 W</td>
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<tr>
<td>ONECOMPACT PU</td>
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1 Before bandpass filter

## VHF BAND III

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<th>Rack chassis dimensions</th>
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<tr>
<td></td>
<td>COFDM (rms)</td>
<td>ATSC (rms)</td>
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<tr>
<td></td>
<td>DVB/ISDB</td>
<td>DAB/DAB+</td>
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<td>ONECOMPACT HVL</td>
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<tr>
<td>ONECOMPACT RV</td>
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<tr>
<td>ONECOMPACT PV</td>
<td>700 W</td>
<td>700 W</td>
</tr>
</tbody>
</table>

1 Before bandpass filter

### OPTIONS

- **SR**: Spectrum restorer version (EDOCR)
- **Opt. G**: GPS / GLONASS integrated receiver
- **Opt. KA**: 26 dB LNA GPS / GLONASS antenna including mounting kit and 25 mt. coaxial cable
- **Opt. S**: DVB-S/S2 integrated receiver board, single and multistream, with CAM slot
- **Opt. IA**: Additional input board, 4x ASI
- **Opt. IG**: Additional input board, 2x ASI + 2x GbE
- **Opt. R**: Additional input board, RF in
- **Opt. RG**: Additional input board for regenerative transposers, RF in
- **Opt. L**: Software option for ISDB-Tb Remux/Layer Combiner/T5 to BTS (188 to 204 byte) converter
- **Opt. T**: Dual-cast software option, adds DVB-T modulation
- **Opt. T2**: Dual-cast software option, adds DVB-T2 modulation
- **Opt. I**: Dual-cast software option, adds ISDB-T modulation
- **Opt. AT**: Dual-cast software option, adds ATSC modulation
- **Opt. P**: Dual-cast software option, adds PAL modulation
- **Opt. N**: Dual-cast software option, adds NTSC or PAL-M modulation
- **Opt. NC**: Integrated NICAM encoder option